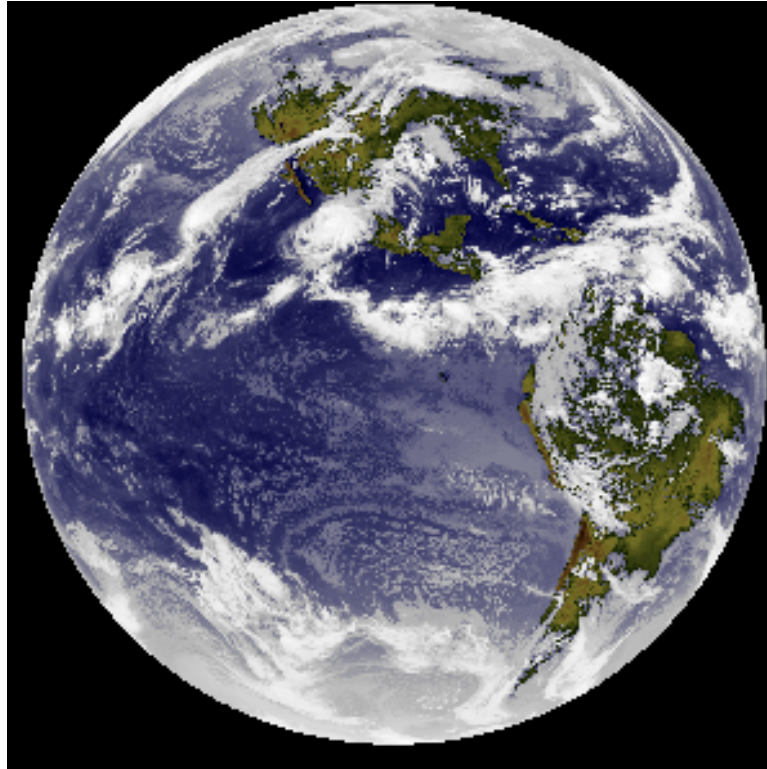


# **INTERNATIONAL PETROLEUM STATISTICS REPORT**

**June 1998**



**Energy Information Administration  
Energy Markets and Contingency Information Division**

## Preface

The International Petroleum Statistics Report is a monthly publication that provides current international oil data. This report is published for the use of Members of Congress, Federal agencies, State agencies, industry, and the general public. Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information ..."

The International Petroleum Statistics Report presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1985, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1997; OECD stocks from 1973 through 1997; and OECD trade from 1987 through 1997.

Data for the United States are developed by the Energy Information Administration's (EIA) Office of Oil and Gas. Data for other countries are derived largely from published sources, including International Energy Agency publications, the EIA International Energy Annual, and the trade press. (See sources after each section.) All data are reviewed by the International Energy Statistics Team of EIA. All data have been converted to units of measurement familiar to the American public. Definitions of oil production and consumption are consistent with other EIA publications.

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-6557. Detailed questions and comments concerning the contents of the International Petroleum Statistics Report may be directed to Michael J. Grillot, Team Leader, International Energy Statistics Team, (202) 586-6577 Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Douglas MacIntyre (202) 586-1831.

**Revisions for the 1997 United States data are based on data published in the *Petroleum Supply Annual 1997*.**

## Oil Market Chronology - May 1998

*The following chronology lists international events of potential significance for world petroleum markets. Sources include: Dow Jones (DJ), The New York Times (NYT), Reuters (R), The Washington Post (WP), and The Wall Street Journal (WSJ).*

- May 1** Iraq maintains that to meet its \$2 billion oil export target, it has contracted for the export of 186 million barrels of oil under the third phase of the United Nations sponsored oil-for-food program. The third phase ends on June 3, 1998. The amount of oil for export in the third phase is higher than the previous two phases due to lower world oil prices. Iraq exported 120 million barrels during the first phase, and exported another 127 million barrels in the second phase. (DJ)
- May 3** Amoco Norway, a subsidiary of Amoco Corporation of the U.S., announces an oil and natural gas discovery off the coast of Norway. Amoco estimates that the find, located in the Donnatello block, holds between 200 million and 500 million barrels of oil and gas. Initial tests at the site flowed approximately 5,200 barrels per day of oil and 5.3 million cubic feet per day of gas. Company officials maintain that the find is one of the biggest off the Norwegian coast in recent years. Amoco holds a 30 percent interest in the Donnatello block, followed by the Norwegian government's State Direct Financial Interest with 30 percent, Britain's Enterprise Oil PLC with 25 percent, and Mobil Corporation of the U.S. with 15 percent. (WSJ)
- May 4** The Atlantic Richfield Company (ARCO) announces that it will acquire Union Texas Petroleum Holdings Incorporated, an independent oil company based in Houston, Texas, for \$2.47 billion. The acquisition will add 140,000 barrels per day to ARCO's oil and natural gas production and increase ARCO's total oil and gas reserves by 14 percent. The deal also helps ARCO enter the Caspian Sea region, with ARCO gaining a 12.5 percent interest in the Caspian Pipeline Consortium and a 5 percent interest in Kazakhstan's Tengiz oil field. ARCO also will gain additional interests in projects located in the United Kingdom, Indonesia, Alaska, and Venezuela. (NYT) (WSJ)
- May 6** Taiwan's Economics Ministry decides to delay the privatization of state-owned Chinese Petroleum Corporation (CPC). The decision follows a parliamentary committee's call for the delay so that legislation, detailing how the petroleum industry will operate after CPC is privatized, can be drafted. Analysts suggest that the first sale of state shares may be delayed from six months to two years. The original privatization plan called for a 15 percent stake to be sold by the end of June 1998, and another 18 percent by July 1999. Government ownership in CPC was scheduled to fall to less than 50 percent by July 2000. (WSJ)
- May 8** The United Nations (U.N.) Security Council accepts a recommendation to end a limited travel ban on some Iraqi government officials. The ban was approved on November 12, 1997 following Iraq's refusal to allow U.N. weapons inspectors access to eight "presidential palaces." In a letter to the Security Council, Richard Butler, chairman of the U.N. Special Commission, reported that Iraq has been granting weapons inspectors access to all sites and recommended termination of the travel ban. (DJ)
- May 11** In March 1998, the Organization of Petroleum Exporting Countries (OPEC) and several non-OPEC countries agreed to crude oil production cuts, beginning April 1, 1998, in an attempt to boost sagging world oil prices. Iraq was the only OPEC member excluded from the deal because its oil exports are conducted under the United Nations oil-for-food program. A *Dow Jones* poll of industry observers indicates that OPEC's April 1998 crude oil output, including Iraq, was 27.995 million barrels per day, down 865,000 barrels per day from March 1998. A second report from the Paris-based International Energy Agency (IEA) indicates that OPEC's April 1998 crude production, including Iraq, was 27.95 million barrels per day, down 800,000 barrels per day from the March 1998 rate. The *Dow Jones* poll shows that, since February 1998, OPEC, excluding Iraq, has cut production by 1.117 million barrels per day, while IEA reports that production, excluding Iraq, has dropped by 1.03 million barrels per day over the same period. These declines are between 83 and 90 percent of the 1.245 million barrels per day of production cuts agreed to by OPEC at the end of March 1998. (DJ)

**May11** India announces that it has conducted three underground nuclear tests, the country's first since 1974. The tests were conducted simultaneously 330 miles southwest of New Delhi, near the Pakistani border. The Indian government indicates that the three tests included a thermonuclear device, commonly known as a hydrogen bomb. Two days later, on May 13, 1998, India announces that it has conducted two more underground nuclear tests in the same desert range. (WP) (DJ)

**May 13** Russia postpones the privatization of Eastern Oil Company, Tyumen Oil Company, and Slavneft until at least the fall of 1998. Alexander Braverman, First Deputy Minister for State Property, says that attempts to sell government stakes in the companies have failed thus far because of a lack of demand. Braverman also indicates that if the privatization of AO Rosneft goes well, the government may reduce the stakes to be offered in Eastern, Tyumen, and Slavneft or delay the sale even further. (DJ)

**May 14** The United Nations Security Council issues a declaration deploring India's nuclear test explosions, urging maximum restraint and dialogue to ease tensions between India and Pakistan. The statement also calls on India, Pakistan, and other nations to sign, without conditions, international treaties banning test explosions and nuclear proliferation. Immediately following the tests, the United States and other countries imposed economic sanctions on India. (DJ)

The U.S. Federal Energy Regulatory Commission approves an agreement among the seven owners of the Trans-Alaska Pipeline System (TAPS) designed to increase competition and lower tariffs. TAPS runs from Prudhoe Bay on Alaska's North Slope to the port of Valdez, Alaska. (DJ)

**May 18** The Caspian Pipeline Consortium (CPC) takes its first major step towards construction of a \$2 billion, 940-mile pipeline route from Kazakhstan's Tengiz oil field to Russia's Black Sea port of Novorossiisk. CPC has secured approval of an investment feasibility study, and must now obtain approval for a construction feasibility study and final land allocation. The pipeline will have an initial capacity of 560,000 barrels per day of oil, eventually rising to 1.34 million barrels per day. CPC officials expect the line to be operational in 2000. (R) (DJ)

Under an agreement with the European Union and Russia, U.S. President Bill Clinton confirms that the United States will not impose sanctions on France's Total, Russia's Gazprom, and Malaysia's Petronas under the Iran-Libya Sanction Act (ILSA). Passed in 1996, ILSA imposes mandatory and discretionary sanctions on non-U.S. companies which invest more than \$20 million annually (lowered in August 1997 from \$40 million) in the Iranian oil and gas sectors. In 1997, the three companies signed a \$2 billion deal to develop Iran's South Pars natural gas field. In exchange, the European Union and Russia agree to tighten controls on the export of weapons technology to Iran. (R) (NYT)

**May 19** The U.S. Virgin Islands approves a \$625 million joint venture between Hess Oil Virgin Islands and Venezuela's state-owned Petroleos de Venezuela SA (PDVSA). The approval clears the way for PDVSA to acquire a 50 percent stake in Hess Oil, a division of New York-based Amerada Hess Corporation, over a 10-year period. The two companies will share construction costs of a new, \$500 million facility, utilizing Venezuelan heavy crude oil, to make coke, a solid petroleum product used in heavy industry. (DJ)

The U.S. Justice Department files suit against Texaco, contending that the oil company was involved in a nationwide effort to undervalue oil it produced on federal and tribal lands in order to pay lower royalties. The suit is separate but similar to a suit the Justice Department filed against four other major oil companies in February 1998. (NYT) (WP)

**May 20** U.S. oil company Chevron Corporation confirms that it has selected Australian Gas and Light Company (AGL) and Malaysia's state-owned Petronas to build, own, and operate a \$938 million, 1,304-mile section of a natural gas pipeline linking Papua New Guinea with Australia. Under the deal, AGL will be primarily responsible for the Australian onshore operations of the line, with Petronas managing a 100-mile offshore section north of Cape York. Chevron says that construction of the pipeline is expected to begin in 1999, with completion scheduled for mid-to-late 2001. The pipeline will be able to deliver 185 billion cubic feet per year of natural gas to markets on the east coast of Australia. (DJ)

**May 21** Following two weeks of student protests, civil unrest and riots, President Suharto resigns, ending 32 years as leader of State of Indonesia. Vice President Baharuddin Jusuf Habibie is immediately sworn in as the new president. (DJ)

**May 25** Russian oil companies AO Yukos and AO Sibneft call off merger proceedings to form AO Yuksi. If the merger had been completed, Yuksi would have been one of the world's largest private oil companies. In a joint press release, the companies blame the instability of the Russian stock market and sagging world oil prices for the failure of the merger. The companies also indicate that they now will independently seek western partners. Yuksi was expected to bid for a controlling interest in Russia's state-owned oil company AO Rosneft. (WSJ)(DJ)

Union Texas Petroleum Holdings Incorporated assumes operation of the Boqueron marginal field from Venezuela's state-owned Petroleos de Venezuela SA. In a press release, Union Texas reports that it will use high-pressure natural gas injection to boost crude oil production. Production from Boqueron, which is currently 8,100 barrels per day, will be increased to 50,000-60,000 barrels per day within three to five years. (DJ)

**May 26** The deadline for the long-awaited auction of Russia's state-owned oil company AO Rosneft passes without any of the Western and Russian companies expected to compete for Rosneft submitting an offer. Prime Minister Sergei Kiriyenko is expected to announce a new auction and to lower the \$2.1 billion starting price the Russian government has been seeking. (NYT)

China verifies that a field located in the Qaidam basin in northwest Qinghai province holds 2.7 trillion cubic feet of natural gas. This brings the total proven gas reserves in Qinghai oil field to 5.3 trillion cubic feet. *Note: As of January 1, 1998, China's proven natural gas reserves were estimated by the Oil and Gas Journal to be 41 trillion cubic feet.* (DJ)

**May 27** Norway's Statoil AS and Norsk Hydro AS sign an agreement with Russia's Gazprom to jointly explore the Pechora Gulf area of the Barents Sea, a region considered rich in petroleum potential. (DJ)

Colombia's state-run oil company Ecopetrol signs an offshore exploration agreement with Amoco Corporation and Atlantic Richfield Company for two blocks off Colombia's Caribbean coast. The two U.S. oil companies are expected to complete seismic studies within the next two years, and to invest \$190 million drilling six test wells over the next six years. The companies will concentrate on exploration for crude oil, but also expect to find natural gas deposits. (DJ)

**May 28** Shell Oil Company, Texaco, and Saudi Arabia's Aramco approve final terms and conditions of a proposed U.S. refining and marketing joint venture. The alliance will be the nation's largest seller of gasoline, combining the companies' eastern and Gulf Coast refining and gas station businesses. The joint venture will be called Motiva Enterprises LLC and is expected to be operating in June 1998. (WSJ) (WP)

**May 29** Pakistan announces that it has conducted five underground nuclear tests, the country's first ever nuclear detonations. The test were conducted at the Chagai Hills test site in western Pakistan, near the Afghan border. Pakistan follows up with two more tests on May 30, 1998. These additional tests are conducted in the remote desert hills of southwestern Baluchistan province. (WP) (DJ)

United Nations (U.N.) Secretary General Kofi Annan approves Iraq's new aid distribution plan under the U.N. sponsored oil-for-food program, clearing the way for Iraq to export up to \$5.26 billion worth of oil during the fourth phase of the program. Early this year, the U.N. agreed to allow Iraq to increase its oil exports from \$2 billion, but Iraq maintains that it only has the capability to reach \$4 billion. If oil prices remain at current levels, Iraq will need to export close to 2 million barrels per day of oil to reach \$4 billion, up from current export rates of around 1.5 million barrels per day. To reach 2 million barrels per day, Iraq's production facilities are estimated to need approximately \$300 million worth of repairs. (DJ)

# Contents

Page

## Section 1. Annual and Monthly Oil Data

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1985-Present .....	4
Table 1.1b World Crude Oil Production (Including Lease Condensate), 1985-Present .....	5
Table 1.1c World Crude Oil Production (Including Lease Condensate), 1985-Present .....	6
Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1985-Present .....	7
Table 1.3 World Natural Gas Plant Liquids Production, 1985-Present .....	8
Table 1.4 World Oil Supply, 1985-Present .....	9
Table 1.5 Oil Stocks in OECD Countries, End of Period .....	10
Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries .....	11
Table 1.7 OECD Oil Demand, 1985-Present .....	12

## Section 2. International Oil Balance

Table 2.1 World Oil Balance, 1994-1998 .....	16
Table 2.2 World Oil Supply, 1994-1998 .....	17
Table 2.3 Oil Stocks, End of Period .....	18
Table 2.4 World Oil Demand, 1993-1997 .....	19

## Section 3. International Oil Imports

Table 3.1 Average Net Oil Imports Into OECD Countries (1997 Average) .....	22
Table 3.2 Net Oil Imports Into OECD Countries (4th Quarter 1997) .....	23
Table 3.3 Net Oil Imports Into OECD Countries (3rd Quarter 1997) .....	24
Table 3.4 OECD Total Net Imports (Most Recent 12 Months)....	25
Table 3.5 OECD Imports From OPEC (Most Recent 12 Months) .....	26
Table 3.6 OECD Imports From Persian Gulf (Most Recent 12 Months) .....	27
Table 3.7 United States--Net Oil Imports (Most Recent 12 Months) .....	28
Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months) .....	29
Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months) .....	30
Table 3.10 France--Net Oil Imports (Most Recent 12 Months) .....	31
Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months) .....	32
Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months) .....	33
Table 3.13 OECD Imports from Iraq (Most Recent 12 Months) .....	34
Table 3.14 OECD Imports From Kuwait (Most Recent 12 Months) .....	35

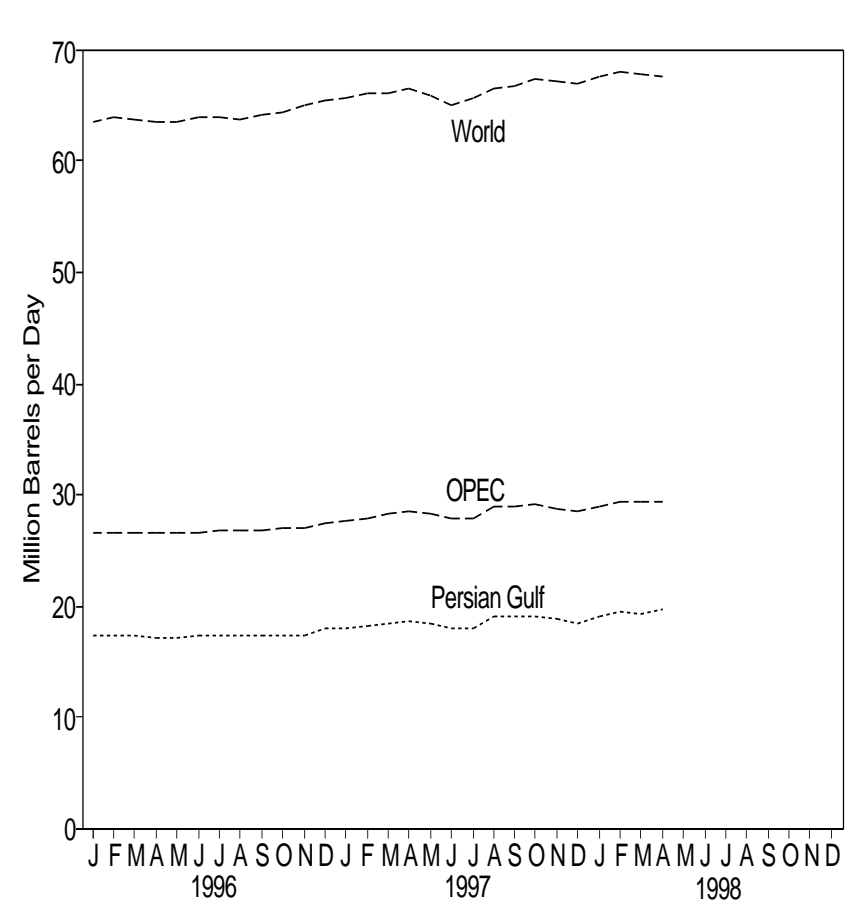
## Contents - Continued

	Page
 <b>Section 4. Historical Oil Data Series</b>	
Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1997 .....	38
Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1997 .....	39
Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1997 .....	40
Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1997 .....	41
Table 4.3 World Natural Gas Plant Liquids Production, 1970-1997 .....	42
Table 4.4 World Oil Supply, 1970-1997 .....	43
Table 4.5 Oil Stocks in OECD Countries, End of Year... ..	44
Table 4.6 World Oil Demand, 1970-1997 .....	45
Table 4.7 OECD Total Net Imports, 1987-1997.... ..	46
Table 4.8 OECD Imports From OPEC, 1987-1997 .....	47
Table 4.9 OECD Imports From Persian Gulf, 1987-1997 .....	48
Table 4.10 United States--Net Oil Imports, 1987-1997 .....	49
Table 4.11 Japan--Net Oil Imports, 1987-1997 .....	50
Table 4.12 OECD Europe--Net Oil Imports, 1987-1997 .....	51
Table 4.13 France--Net Oil Imports, 1987-1997 .....	52
Table 4.14 Germany--Net Oil Imports, 1987-1997 .....	53
Table 4.15 Italy--Net Oil Imports, 1987-1997 .....	54
Table 4.16 OECD Imports From Iraq, 1987-1997 .....	55
Table 4.17 OECD Imports From Kuwait, 1987-1997 .....	56
 <b>Appendix A. Organizational and Geographical Definitions</b> .....	 59
<b>Appendix B. Explanatory Notes</b> .....	61
<b>Appendix C. Glossary</b> .....	65
<b>Appendix D. Estimation Procedures</b> .....	67
<b>Appendix E. Conversions</b>	
Table E1. Refined Petroleum Products Conversion Factors .....	70
Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996 .....	71
 <b>Figures</b>	
Figure 1. World Crude Oil Production, Monthly .....	2
Figure 2. Leading Crude Oil Producers, Monthly .....	2
Figure 3. OECD Oil Consumption, Monthly .....	3
Figure 4. OECD Oil Stocks, Monthly .....	3

## **1. Annual and Monthly Oil Data**

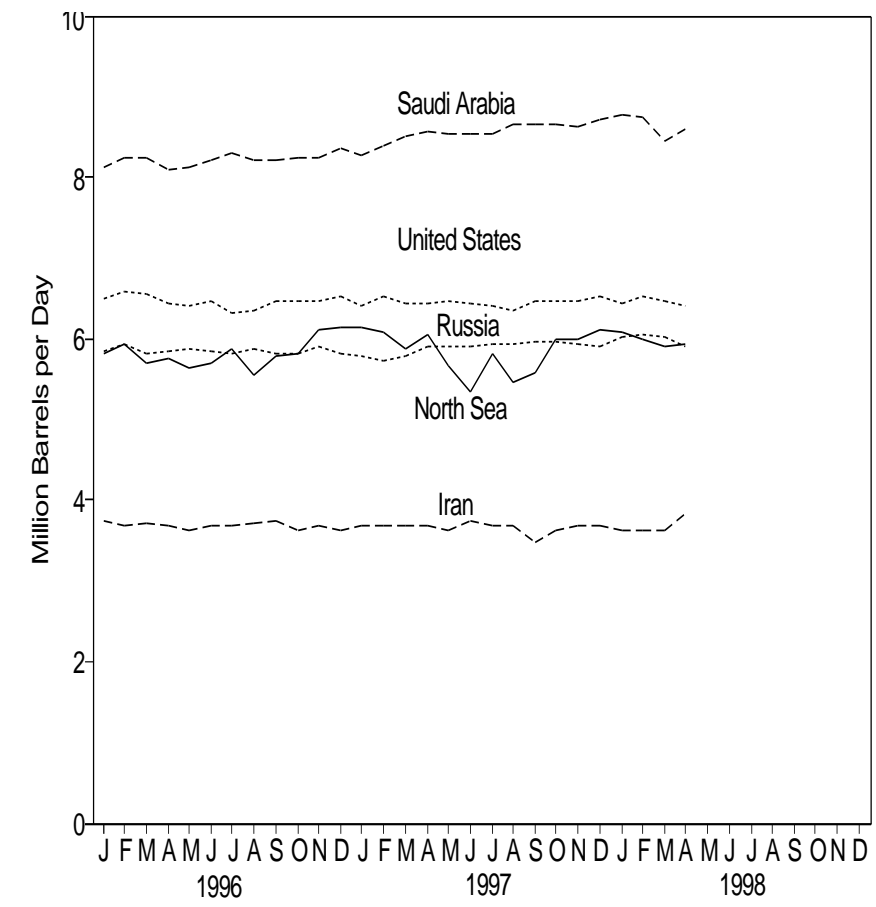


Figure 1. World Crude Oil Production, Monthly



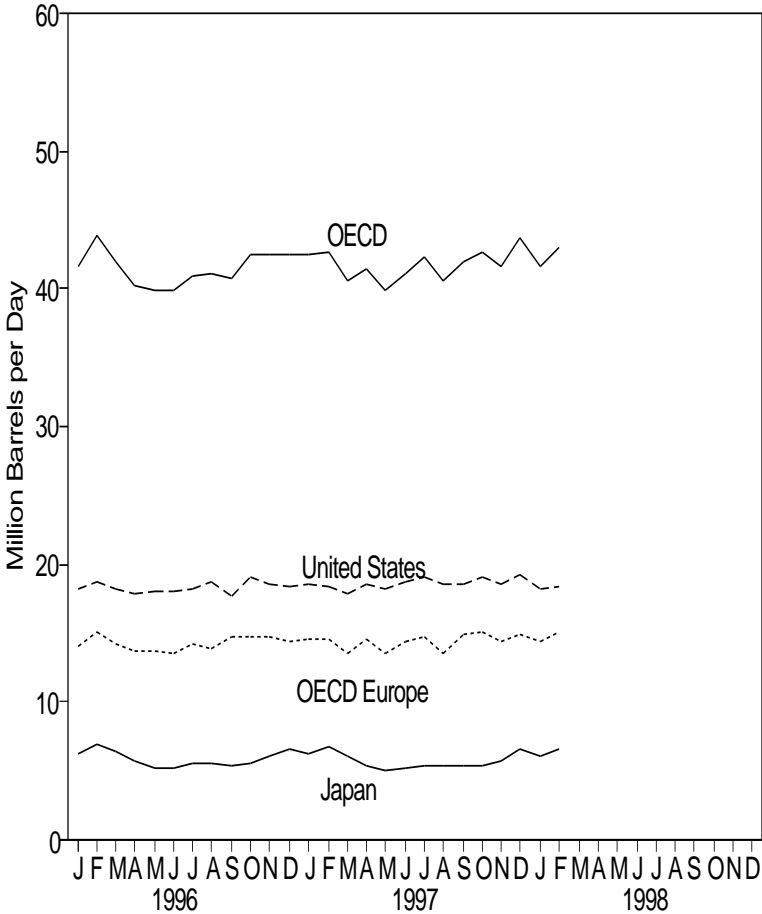
Source: Tables 1.1a-1.1c

Figure 2. Leading Crude Oil Producers, Monthly



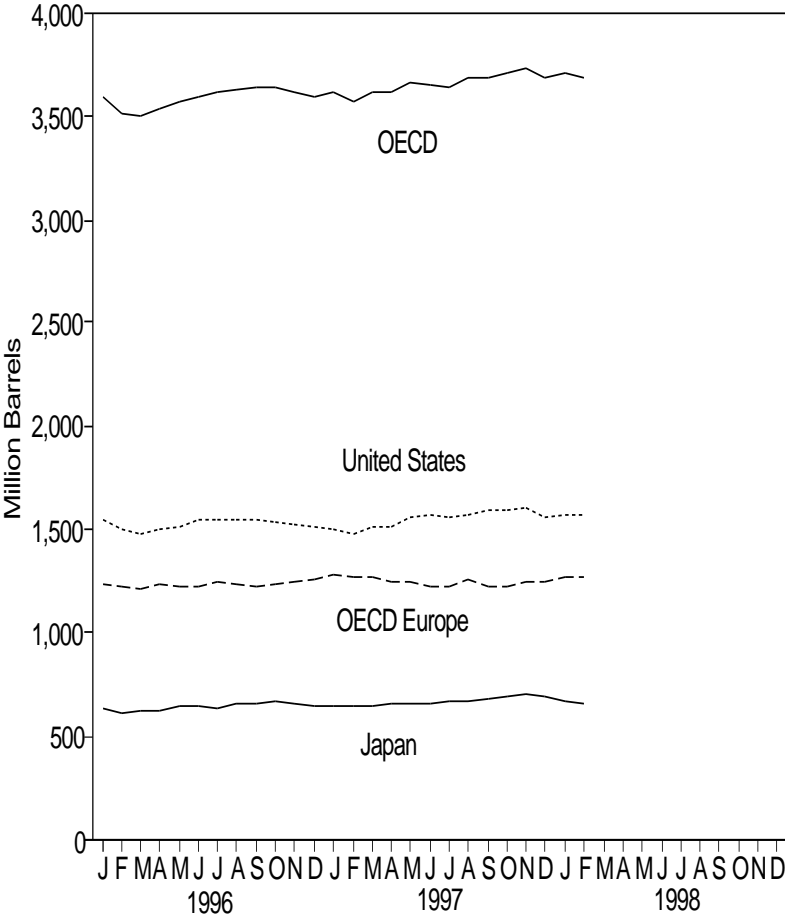
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

**Table 1.1a World Crude Oil Production (Including Lease Condensate), 1985-Present**  
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Venezuela	Total OPEC
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,188	510	8,218	2,278	3,053	26,764
1997 January.....	1,260	1,570	3,685	1,085	2,085	1,430	2,280	585	8,265	2,300	3,190	27,735
February.....	1,270	1,590	3,685	1,125	2,077	1,430	2,310	585	8,408	2,330	3,190	28,000
March.....	1,280	1,600	3,685	1,175	2,105	1,440	2,240	585	8,515	2,360	3,200	28,185
April.....	1,280	1,560	3,685	1,275	2,107	1,450	2,310	585	8,568	2,360	3,220	28,400
May.....	1,280	1,580	3,635	1,325	2,027	1,450	2,270	605	8,548	2,210	3,240	28,170
June.....	1,260	1,530	3,735	605	2,050	1,450	2,340	690	8,540	2,325	3,260	27,785
July.....	1,280	1,530	3,685	605	2,070	1,450	2,330	685	8,560	2,325	3,270	27,790
August.....	1,280	1,530	3,685	1,515	2,070	1,450	2,350	685	8,660	2,325	3,390	28,940
September.....	1,280	1,490	3,485	1,735	2,075	1,450	2,300	685	8,665	2,325	3,430	28,920
October.....	1,280	1,490	3,635	1,625	2,075	1,450	2,400	685	8,665	2,325	3,430	29,060
November.....	1,280	1,540	3,685	1,390	2,075	1,450	2,360	705	8,615	2,305	3,460	28,865
December.....	1,290	1,540	3,685	781	2,175	1,450	2,320	705	8,725	2,310	3,490	28,471
1997 Average.....	1,277	1,546	3,664	1,187	2,083	1,446	2,317	649	8,562	2,316	3,315	28,362
1998 January.....	1,290	1,520	3,635	1,261	2,215	1,450	2,208	715	8,765	2,435	3,440	28,934
February.....	1,290	1,520	3,635	1,703	2,210	1,450	2,253	735	8,760	2,435	3,410	29,401
March.....	1,290	1,520	3,635	1,825	2,210	1,450	2,370	735	8,460	2,480	3,410	29,385
April.....	1,270	1,520	3,835	1,985	2,115	1,400	2,228	705	8,585	2,420	3,240	29,303
1998 Average.....	1,285	1,520	3,685	1,691	2,188	1,438	2,265	722	8,640	2,443	3,375	29,252

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In April 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 570 thousand barrels per day.

Notes: •OPEC=Organization of Petroleum Exporting Countries. •Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

**Table 1.1b World Crude Oil Production (Including Lease Condensate), 1985-Present**  
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea <sup>1/</sup>	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 January.....	3,268	2,693	6,126	700	820	565	840	1,874	3,210	650	385
February.....	3,263	2,660	6,074	715	820	561	830	1,920	3,240	640	385
March.....	3,063	2,638	5,863	720	830	594	830	1,900	3,215	620	380
April.....	3,388	2,515	6,063	720	840	594	830	1,823	3,230	650	390
May.....	3,194	2,315	5,677	720	840	576	830	1,737	3,275	650	380
June.....	3,025	2,135	5,339	710	815	574	830	1,835	3,220	640	360
July.....	3,194	2,447	5,820	715	820	584	860	1,889	3,190	605	360
August.....	2,890	2,407	5,462	720	840	605	845	1,895	3,190	635	370
September.....	2,927	2,483	5,589	717	845	626	830	1,930	3,195	660	390
October.....	3,209	2,610	6,000	725	850	616	740	1,956	3,195	715	385
November.....	3,192	2,602	5,992	725	850	565	810	1,970	3,158	745	395
December.....	3,229	2,700	6,116	750	845	590	920	1,985	3,090	730	390
1997 Average.....	3,153	2,517	5,843	720	835	588	833	1,893	3,200	662	381
1998 January.....	3,293	2,597	6,082	735	840	528	886	1,912	3,240	R715	390
February.....	3,230	2,583	5,989	730	840	550	920	1,944	3,155	R710	380
March.....	3,123	2,600	5,908	730	840	560	920	1,952	3,170	R725	380
April.....	3,160	2,602	5,928	730	840	600	920	2,005	3,140	725	380
1998 Average.....	3,201	2,596	5,977	731	840	559	911	1,953	3,177	719	383

<sup>1/</sup> North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.  
R=Revised data.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.1c World Crude Oil Production (Including Lease Condensate), 1985-Present**  
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other <sup>1/</sup>	World
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,228	60,212
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,280	60,238
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,382	60,992
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,410	62,331
1996 Average.....	922	368	651	695	2,855	883	5,850	--	604	6,465	3,509	64,054
1997 January.....	885	370	650	730	2,940	890	5,789	--	565	R6,402	3,715	R65,676
February.....	885	370	650	730	2,970	900	5,729	--	565	6,514	3,694	R66,041
March.....	890	370	660	730	2,970	900	5,772	--	565	R6,452	3,734	R66,018
April.....	890	370	685	750	2,945	900	5,893	--	560	R6,441	3,756	R66,571
May.....	880	370	685	750	2,990	890	5,902	--	560	R6,474	3,720	R65,908
June.....	870	370	685	740	3,005	900	5,902	--	560	R6,442	3,725	R65,128
July.....	880	370	685	740	3,035	840	5,923	--	560	R6,409	3,679	R65,576
August.....	870	370	685	740	3,080	870	5,945	--	560	R6,347	3,669	R66,474
September....	860	360	675	760	3,105	870	5,958	--	560	R6,486	3,670	R66,827
October.....	860	370	678	760	3,087	880	5,954	--	560	R6,467	3,684	R67,361
November....	860	370	681	760	3,085	890	5,945	--	560	R6,459	3,720	R67,207
December....	860	360	675	760	3,056	910	5,893	--	560	R6,531	3,702	R67,007
1997 Average.....	874	368	675	746	3,023	887	5,884	--	561	R6,452	3,706	R66,317
1998 January.....	860	360	680	740	3,085	R920	6,023	--	550	E6,438	3,738	R67,464
February.....	860	R370	R685	730	3,140	R920	6,040	--	550	E6,538	R3,719	R67,995
March.....	860	R370	R685	740	3,160	R930	6,005	--	550	RE6,465	R3,709	R67,859
April.....	860	370	685	740	3,140	920	5,919	--	550	E6,413	3,665	67,667
1998 Average.....	860	367	684	738	3,131	923	5,996	--	550	PE6,462	3,708	67,741

<sup>1/</sup> Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1985-Present**  
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Venezuela	Total OPEC
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,097	22,458
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,600	548	2,034	1,378	1,887	409	8,147	2,183	2,542	24,812
1995 Average...	767	1,343	3,608	550	2,057	1,390	1,876	449	8,231	2,197	2,710	25,179
1996 Average...	812	1,367	3,651	579	2,062	1,401	2,051	475	8,218	2,198	3,013	25,826
1997 January...	830	1,390	3,650	1,080	2,085	1,430	2,180	550	8,265	2,220	3,150	26,830
February...	840	1,410	3,650	1,120	2,077	1,430	2,210	550	8,408	2,250	3,150	27,095
March ....	850	1,420	3,650	1,170	2,105	1,440	2,140	550	8,515	2,280	3,160	27,280
April ....	850	1,380	3,650	1,270	2,107	1,450	2,210	550	8,568	2,280	3,180	27,495
May ....	850	1,400	3,600	1,320	2,027	1,450	2,170	570	8,548	2,130	3,200	27,265
June ....	830	1,350	3,700	600	2,050	1,450	2,240	655	8,540	2,245	3,220	26,880
July ....	850	1,350	3,650	600	2,070	1,450	2,230	650	8,560	2,245	3,230	26,885
August....	850	1,350	3,650	1,510	2,070	1,450	2,250	650	8,660	2,245	3,350	28,035
September.	850	1,310	3,450	1,730	2,075	1,450	2,200	650	8,665	2,245	3,390	28,015
October...	850	1,310	3,600	1,620	2,075	1,450	2,300	650	8,665	2,245	3,390	28,155
November..	850	1,360	3,650	1,385	2,075	1,450	2,260	670	8,615	2,225	3,420	27,960
December..	860	1,360	3,650	776	2,175	1,450	2,220	670	8,725	2,230	3,450	27,566
1997 Average...	847	1,366	3,629	1,182	2,083	1,446	2,217	614	8,562	2,236	3,275	27,457
1998 January...	860	1,340	3,600	1,256	2,215	1,450	2,108	680	8,765	2,355	3,400	28,029
February..	860	1,340	3,600	1,698	2,210	1,450	2,153	700	8,760	2,355	3,370	28,496
March.....	860	1,340	3,600	1,820	2,210	1,450	2,270	700	8,460	2,400	3,370	28,480
April.....	840	1,340	3,800	1,980	2,115	1,400	2,128	670	8,585	2,340	3,200	28,398
1998 Average ..	855	1,340	3,650	1,686	2,188	1,438	2,165	687	8,640	2,363	3,335	28,347

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In April 1998, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 570 thousand barrels per day.

Notes: \*OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

\*Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

**Table 1.3 World Natural Gas Plant Liquids Production, 1985-Present**  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,975
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,181
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,293
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,582
1997 January.....	145	660	370	700	200	--	R1,782	1,085	1,287	1,465	R5,562
February.....	145	645	375	710	200	--	R1,867	1,095	1,297	1,475	R5,627
March.....	145	652	385	720	200	--	R1,876	1,105	1,307	1,485	R5,662
April.....	145	610	360	725	200	--	R1,824	1,110	1,312	1,490	R5,541
May.....	145	597	380	725	200	--	R1,822	1,110	1,312	1,490	R5,498
June.....	145	595	370	720	200	--	R1,827	1,105	1,307	1,485	R5,471
July.....	145	598	370	720	200	--	R1,821	1,105	1,307	1,485	R5,495
August.....	145	625	370	730	200	--	R1,831	1,115	1,317	1,495	R5,529
September....	145	626	425	730	200	--	R1,845	1,115	1,317	1,495	R5,625
October.....	145	646	409	730	200	--	R1,813	1,115	1,317	1,495	R5,614
November.....	145	655	405	725	200	--	R1,728	1,110	1,312	1,490	R5,576
December.....	145	665	418	735	200	--	R1,773	1,120	1,322	1,500	R5,653
1997 Average.....	145	631	386	723	200	--	R1,817	1,108	1,310	1,488	R5,571
1998 January.....	145	665	385	735	200	--	1,826	1,120	1,322	1,500	5,659
February.....	145	680	420	735	200	--	1,870	1,120	1,322	1,500	5,755
March.....	145	645	425	735	200	--	R1,846	1,120	1,322	1,500	R5,702
April.....	145	627	425	725	200	--	E1,837	1,110	1,312	1,490	5,651
1998 Average.....	145	654	414	733	200	--	E1,844	1,118	1,320	1,498	5,690

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia. Excludes fuel ethanol blended into finished motor gasoline.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.4 World Oil Supply, 1985-Present**  
(Thousand Barrels per Day)

	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,960
1993 Average.....	9,602	17,792	18,505	26,610	67,361
1994 Average.....	9,413	18,072	18,745	27,031	68,250
1995 Average.....	9,400	18,351	19,069	27,566	69,860
1996 Average.....	9,445	18,486	19,259	28,321	71,764
1997 January.....	R9,234	19,162	19,898	29,256	R73,299
February.....	R9,525	19,377	20,123	29,531	R73,822
March.....	R9,428	19,602	20,373	29,726	R73,791
April.....	R9,416	19,762	20,534	29,946	R74,273
May.....	R9,497	19,532	20,344	29,716	R73,617
June.....	R9,465	19,122	19,799	29,326	R72,806
July.....	R9,465	19,107	19,859	29,331	R73,316
August.....	R9,404	20,127	20,869	30,491	R74,239
September.....	R9,560	20,157	21,089	30,471	R74,692
October.....	R9,519	20,197	20,979	30,611	R75,225
November.....	R9,457	19,957	20,689	30,411	R75,063
December.....	R9,570	19,573	20,315	30,027	R74,937
1997 Average.....	R9,461	19,641	20,407	29,905	R74,091
1998 January.....	9,462	20,218	21,000	30,490	R75,332
February.....	9,611	20,670	21,455	30,957	R75,964
March.....	RE9,442	20,537	R21,324	30,941	R75,703
April.....	E9,503	20,827	21,344	30,849	75,582
1998 Average.....	PE9,502	20,558	21,276	30,805	75,638

1/ U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

2/ See Appendix A for countries in this group.

3/ OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.



**Table 1.5 Oil Stocks in OECD Countries, End of Period**  
(Million Barrels)

		France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	January.....	156	158	306	107	1,280	R1,501	106	650	80	R3,617
	February.....	159	156	309	105	R1,270	1,482	R103	642	75	R3,573
	March.....	160	160	311	109	1,272	1,512	105	650	76	R3,615
	April.....	159	151	301	108	1,248	R1,518	108	665	80	R3,619
	May.....	163	150	311	108	1,248	R1,561	104	664	81	R3,658
	June.....	153	151	298	111	1,229	R1,575	103	662	83	R3,652
	July.....	153	150	303	106	1,225	1,559	105	670	81	R3,640
	August.....	158	151	302	108	1,253	1,570	113	669	80	3,685
	September.....	157	144	291	106	1,226	R1,592	108	682	77	R3,686
	October.....	152	144	289	106	R1,228	1,598	111	693	83	R3,713
	November.....	163	150	291	106	1,249	R1,600	111	699	76	3,734
	December.....	164	147	298	103	1,250	R1,560	114	685	72	R3,682
1998	January.....	163	154	R298	111	R1,274	1,576	R110	673	78	R3,711
	February.....	161	155	290	108	1,270	1,572	112	663	75	3,692

1/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •Oil Stocks - See Explanatory Note 2 in Appendix B. •See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of December 1997)**  
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	114	0	114
United States <sup>1</sup> /.....	997	563	1,560
United States Territories.....	23	0	23
Japan.....	370	315	685
Australia/New Zealand.....	49	NA	49
Austria.....	20	0	20
Belgium/Luxembourg.....	32	0	32
Denmark.....	23	0	23
Finland.....	25	0	25
France.....	164	0	164
Germany <sup>2</sup> /.....	243	55	298
Greece.....	27	NA	27
Ireland.....	7	2	9
Italy.....	141	6	147
Netherlands.....	95	0	95
Norway.....	58	0	58
Portugal.....	22	0	22
Spain.....	102	0	102
Sweden.....	31	0	31
Switzerland.....	45	0	45
Turkey.....	51	0	51
United Kingdom.....	103	0	103
OECD Europe.....	1,189	63	1,250
Total OECD.....	2,742	941	3,682

<sup>1</sup>/ U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2</sup>/ Data are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not Available.

Notes: •Sum of components may not equal total due to rounding. •Oil Stocks - See Explanatory Note 2 in Appendix B.  
•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

**Table 1.7. OECD Oil Demand, 1985-Present**  
(Thousand Barrels per Day)

		France	Italy	Germany <sup>1</sup> /	United Kingdom	OECD Europe <sup>2</sup> /	United States <sup>3</sup> /	Canada	Japan	Other <sup>4</sup> /	Total OECD
1985	Average....	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271
1986	Average....	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279
1987	Average....	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911
1988	Average....	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093
1989	Average....	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570
1990	Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991	Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992	Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	38,768
1993	Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	38,967
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	39,890
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,243	40,553
1996	Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,191	41,432
1997	January....	2,165	2,037	2,906	R1,829	R14,637	R18,554	R1,844	6,291	1,138	R42,464
	February...	2,137	2,126	2,657	1,907	14,564	R18,398	R1,864	6,751	1,140	R42,717
	March.....	1,796	1,928	2,694	1,776	R13,593	R17,863	R1,797	6,146	1,141	R40,539
	April.....	1,910	1,999	3,234	R1,824	R14,676	R18,559	1,745	5,303	1,174	R41,456
	May.....	1,707	1,898	2,776	R1,712	R13,490	R18,293	1,823	5,076	1,065	R39,747
	June.....	1,872	1,948	3,138	R1,792	14,340	R18,617	1,913	5,131	1,090	R41,091
	July.....	2,072	2,029	3,079	1,766	R14,715	R19,107	1,951	5,447	1,142	R42,362
	August.....	1,790	1,808	2,753	1,724	R13,509	R18,565	1,915	5,400	1,106	R40,495
	September..	1,994	2,181	3,168	R1,833	R14,967	R18,562	1,874	5,419	1,158	R41,980
	October....	2,139	2,216	2,869	R1,849	R15,058	R19,071	1,936	5,416	1,152	R42,632
	November...	1,727	2,184	2,885	R1,817	R14,387	R18,578	R1,834	5,729	1,161	R41,688
	December...	2,101	2,308	2,762	R1,825	14,971	R19,250	1,878	6,464	1,161	R43,723
	Average....	1,950	2,054	2,910	R1,804	R14,406	R18,620	1,865	5,709	1,135	R41,735
1998	January....	R2,040	R2,030	R2,734	R1,779	R14,304	18,256	R1,888	R6,109	R1,044	R41,602
	February...	2,160	2,151	2,951	1,842	15,127	18,322	1,821	6,505	1,142	42,917

1/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition. •See Section 4 for historical series.

Sources: See end of Section 1.

## Sources for Section 1 (Annual and Monthly Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Canada -- Maclean Hunter Publishing Company, Oilweek, various issues. Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. All Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1998.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1985-1998.

## **2. International Oil Balance Data**

**Table 2.1 World Oil Balance, 1994-1998**  
(Million Barrels Per Day)

	1994	1995	1996	1997				1998					
		Annual		Quarter				Annual	Quarter				Annual
		Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
Supply1/ OECD													
United States2/.....	9.41	9.40	9.44	9.39	9.46	9.48	9.52	9.46	9.50	NA	NA	NA	NA
Other OECD.....	9.25	9.80	10.29	10.67	10.15	10.22	10.78	10.46	10.66	NA	NA	NA	NA
Total OECD.....	18.66	19.20	19.74	20.06	19.61	19.69	20.30	19.92	20.17	NA	NA	NA	NA
Non-OECD													
OPEC.....	27.03	27.57	28.32	29.50	29.66	30.09	30.35	29.91	30.79	NA	NA	NA	NA
Former USSR.....	7.27	7.14	7.05	6.99	7.15	7.20	7.18	7.13	7.29	NA	NA	NA	NA
Other Non-OECD.....	15.29	15.95	16.65	17.07	17.15	17.09	17.24	17.14	17.41	NA	NA	NA	NA
Total Non-OECD.....	49.59	50.66	52.02	53.57	53.96	54.38	54.77	54.17	55.49	NA	NA	NA	NA
Total World Supply.....	68.25	69.86	71.76	73.63	73.57	74.08	75.08	74.09	75.66	NA	NA	NA	NA
Demand3/ OECD													
United States2/.....	17.72	17.72	18.31	18.27	18.49	18.75	18.97	18.62	NA	NA	NA	NA	NA
Other OECD.....	22.17	22.83	23.12	23.61	22.27	22.86	23.72	23.11	NA	NA	NA	NA	NA
Total OECD.....	39.89	40.55	41.43	41.88	40.75	41.61	42.69	41.74	NA	NA	NA	NA	NA
Non-OECD													
China.....	3.14	3.33	3.55	3.83	3.88	3.92	3.98	3.90	NA	NA	NA	NA	NA
Former USSR.....	4.85	4.62	4.38	4.77	4.31	4.32	4.75	4.54	NA	NA	NA	NA	NA
Other Non-OECD.....	20.43	21.43	22.16	23.24	23.13	22.41	23.92	23.18	NA	NA	NA	NA	NA
Total Non-OECD.....	28.42	29.38	30.09	31.84	31.33	30.65	32.65	31.61	NA	NA	NA	NA	NA
Total World Demand.....	68.31	69.93	71.52	73.72	72.08	72.25	75.34	73.35	NA	NA	NA	NA	NA
Stock Draws / Discrepancy													
Net Reported Stock Draws4/													
U. S. Commercial.....	.00	.25	.08	-.08	-.70	-.19	.35	-.15	NA	NA	NA	NA	NA
U. S. Strategic.....	-.01	.00	.07	.03	.00	.00	.00	.01	NA	NA	NA	NA	NA
Other OECD.....	-.16	.09	-.12	-.22	.28	-.17	-.31	-.10	NA	NA	NA	NA	NA
For Export & Afloat.....	.03	-.12	-.01	-.28	.27	-.49	.00	-.08	NA	NA	NA	NA	NA
Commr. Floating Storage...	.00	.00	.00	.00	.00	.00	.00	.00	NA	NA	NA	NA	NA
Total Reported Draws.....	-.15	.22	.01	-.54	-.14	-.85	.04	-.33	NA	NA	NA	NA	NA
Other Stock Draws and Statistical Discrepancy5/	.21	-.15	-.26	.62	-1.35	-.97	.22	-.41	NA	NA	NA	NA	NA

<sup>1/</sup> Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

<sup>2/</sup> U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

<sup>3/</sup> The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

<sup>4/</sup> Stock draws are positive numbers, stock additions are negative numbers.

<sup>5/</sup> This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

Note: Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

**Table 2.2 World Oil Supply, 1994-1998**  
(Million Barrels Per Day)

	1994	1995	1996	1997				1998					
		Annual		Quarter				Annual	Quarter				Annual
		Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD													
United States <sup>1</sup> /...	9.41	9.40	9.44	9.39	9.46	9.48	9.52	9.46	9.50	NA	NA	NA	NA
Canada.....	2.33	2.45	2.49	2.61	2.46	2.58	2.69	2.58	2.66	NA	NA	NA	NA
North Sea <sup>2</sup> /.....	5.38	5.80	6.22	6.45	6.06	5.99	6.46	6.24	6.42	NA	NA	NA	NA
Other OECD.....	1.54	1.55	1.58	1.61	1.63	1.65	1.64	1.63	1.58	NA	NA	NA	NA
Total OECD.....	18.66	19.20	19.74	20.06	19.61	19.69	20.30	19.92	20.17	NA	NA	NA	NA
Non-OECD													
OPEC													
Crude													
Algeria.....	1.18	1.20	1.24	1.27	1.27	1.28	1.28	1.28	1.29	NA	NA	NA	NA
Indonesia.....	1.51	1.50	1.55	1.59	1.56	1.52	1.52	1.55	1.52	NA	NA	NA	NA
Iran.....	3.62	3.64	3.69	3.68	3.68	3.62	3.67	3.66	3.63	NA	NA	NA	NA
Iraq.....	.55	.56	.58	1.13	1.07	1.28	1.26	1.19	1.59	NA	NA	NA	NA
Kuwait.....	2.02	2.06	2.06	2.09	2.06	2.07	2.11	2.08	2.21	NA	NA	NA	NA
Libya.....	1.38	1.39	1.40	1.43	1.45	1.45	1.45	1.45	1.45	NA	NA	NA	NA
Nigeria.....	1.93	1.99	2.19	2.28	2.31	2.33	2.36	2.32	2.28	NA	NA	NA	NA
Qatar.....	.41	.44	.51	.58	.63	.68	.70	.65	.73	NA	NA	NA	NA
Saudi Arabia..	8.12	8.23	8.22	8.40	8.55	8.63	8.67	8.56	8.66	NA	NA	NA	NA
United Arab Emirates...	2.19	2.23	2.28	2.33	2.30	2.32	2.31	2.32	2.45	NA	NA	NA	NA
Venezuela.....	2.59	2.75	3.05	3.19	3.24	3.36	3.46	3.31	3.42	NA	NA	NA	NA
Natural Gas													
Plant Liquids	1.46	1.51	1.50	1.47	1.49	1.49	1.50	1.49	1.50	NA	NA	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA	NA
Total OPEC.....	27.03	27.57	28.32	29.50	29.66	30.09	30.35	29.91	30.79	NA	NA	NA	NA
Former USSR.....	7.27	7.14	7.05	6.99	7.15	7.20	7.18	7.13	7.29	NA	NA	NA	NA
China.....	2.94	2.99	3.13	3.22	3.24	3.19	3.15	3.20	3.19	NA	NA	NA	NA
Mexico.....	3.17	3.09	3.31	3.36	3.38	3.49	3.51	3.44	3.57	NA	NA	NA	NA
Other Non-OECD....	9.17	9.86	10.21	10.49	10.52	10.41	10.58	10.50	10.66	NA	NA	NA	NA
Total Non-OECD....	49.59	50.66	52.02	53.57	53.96	54.38	54.77	54.17	55.49	NA	NA	NA	NA
Total Supply.....	68.25	69.86	71.76	73.63	73.57	74.08	75.08	74.09	75.66	NA	NA	NA	NA

<sup>1</sup>/ U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2</sup>/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

Notes: \*Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and processing gain (except for individual OPEC countries). For OPEC, natural gas plant liquids production and processing gain are shown as separate lines. \*Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

**Table 2.3 Oil Stocks, End of Period**  
(Million Barrels)

	1993	1994	1995	1996				1997			
		Year End		Quarter				Quarter			
				First	Second	Third	Fourth	First	Second	Third	Fourth
OECD											
United States <sup>1/</sup>											
Commercial.....	1,060	1,061	971	893	962	977	941	949	1,012	1,029	997
Strategic.....	587	592	592	589	584	574	566	563	563	563	563
U. S. Territories.....	25	26	24	22	23	29	25	23	27	27	23
Canada.....	105	119	109	109	107	113	103	105	103	108	114
Japan.....	618	645	630	627	640	664	651	650	662	682	685
OECD Europe											
France.....	158	158	159	156	160	152	158	160	153	157	164
Germany.....	309	312	301	296	296	295	300	311	298	291	298
Italy.....	163	164	162	153	158	162	152	160	151	144	147
United Kingdom.....	118	115	107	106	104	105	108	109	111	106	103
Other OECD Europe....	475	490	499	501	511	515	537	532	516	527	539
Total.....	1,221	1,240	1,228	1,212	1,229	1,229	1,256	1,272	1,229	1,226	1,250
Australia & New Zealand	44	43	47	48	50	54	49	53	56	50	49
Total OECD.....	3,661	3,726	3,601	3,500	3,597	3,641	3,591	3,615	3,652	3,686	3,682
Stocks for Export											
and Afloat <sup>2/</sup> .....	945	935	980	950	955	960	985	1,010	985	1,030	1,030
Commercial Floating <sup>3/</sup> ....	70	70	70	70	70	70	70	70	70	70	70

<sup>1/</sup> U.S. stock data include Alaskan crude oil in transit by water. These data were previously reported in stocks for export and afloat. U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> Stocks held at export terminals of major crude oil producing countries and commercial oil afloat based on quarterly analysis of world seaborne movements.

<sup>3/</sup> Stocks stored by industry in tankers moored offshore. Excludes strategic storage.

Notes: •Oil Stocks - See Note 2 in Appendix B. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.



**Table 2.4 World Oil Demand, 1993-1997**  
(Million Barrels Per Day)

	1993	1994	1995	1996				1997					
		Annual		Quarter				Annual	Quarter				Annual
		Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD													
United States <sup>1</sup> /.....	17.24	17.72	17.72	18.39	17.98	18.18	18.68	18.31	18.27	18.49	18.75	18.97	18.62
U. S. Territories.....	.24	.26	.25	.28	.26	.23	.25	.26	.20	.17	.19	.20	.19
Canada.....	1.69	1.73	1.76	1.81	1.73	1.82	1.84	1.80	1.83	1.83	1.91	1.88	1.86
Japan.....	5.40	5.67	5.71	6.54	5.33	5.48	6.11	5.87	6.38	5.17	5.42	5.87	5.71
OECD Europe <sup>2</sup> /													
France.....	1.88	1.83	1.90	2.01	1.85	1.92	1.96	1.93	2.03	1.83	1.95	1.99	1.95
Italy.....	1.85	1.84	2.05	2.19	1.92	2.01	2.12	2.06	2.03	1.95	2.00	2.24	2.05
United Kingdom.....	1.81	1.84	1.84	1.84	1.81	1.82	1.90	1.85	1.84	1.78	1.77	1.83	1.80
Germany <sup>3</sup> /.....	2.90	2.88	2.88	2.93	2.81	3.03	2.88	2.91	2.76	3.05	3.00	2.84	2.91
Other OECD Europe....	5.08	5.21	5.45	5.50	5.29	5.52	5.76	5.52	5.61	5.56	5.66	5.91	5.69
Total OECD Europe....	13.52	13.60	14.12	14.47	13.68	14.29	14.63	14.27	14.25	14.16	14.39	14.81	14.41
Australia & New Zealand	.88	.92	.99	.96	.94	.90	.94	.93	.94	.94	.95	.96	.94
Total OECD.....	38.97	39.89	40.55	42.44	39.93	40.90	42.46	41.43	41.88	40.75	41.61	42.69	41.74
Non-OECD													
China.....	2.96	3.14	3.33	3.48	3.53	3.56	3.62	3.55	3.83	3.88	3.92	3.98	3.90
Former USSR.....	5.64	4.85	4.62	4.63	4.17	4.17	4.54	4.38	4.77	4.31	4.32	4.75	4.54
Other Non-OECD.....	19.48	20.43	21.43	22.20	22.11	21.44	22.90	22.16	23.24	23.13	22.41	23.92	23.18
Total Non-OECD.....	28.08	28.42	29.38	30.31	29.81	29.17	31.06	30.09	31.84	31.33	30.65	32.65	31.61
Total World Demand.....	67.04	68.31	69.93	72.75	69.74	70.07	73.51	71.52	73.72	72.08	72.25	75.34	73.35

<sup>1</sup>/ U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Oil demand includes bunkers and refinery fuel. The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

## Sources for Section 2 (International Oil Balance Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Canada -- Maclean Hunter Publishing Company, Oilweek, various issues. Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1998. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1998.

OPEC Countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

Other countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

### **3. International Oil Imports**

**Table 3.1 Average Net Oil Imports into OECD Countries, (1997 Average)**  
(Million Barrels per Day)

	Total	OECD Europe						OECD Outside Europe			
		Total	United Kingdom	France	Germany <sup>1</sup> /	Italy	Other Europe <sup>2</sup> /	United States <sup>3</sup> /	Canada	Japan	Other <sup>4</sup> /
Total Net Imports..	21.968	7.487	-0.821	1.758	2.807	1.795	1.948	9.158	-0.810	5.820	0.314
Imports from OPEC <sup>1</sup> /	16.329	6.138	.198	.899	.643	1.353	3.045	4.542	.308	4.696	.644
Imports from Persian Gulf <sup>2</sup> /											
Total.....	9.875	3.414	.094	.617	.156	.583	1.965	1.747	.120	4.301	.293
Bahrain.....	.023	.001	.000	.000	.000	.000	.000	-.002	-	.022	.002
Iran.....	1.447	.955	.000	.127	.023	.258	.546	.000	.032	.460	.000
Iraq.....	.415	.294	.000	.078	.001	.033	.182	.089	.014	.015	.003
Kuwait.....	1.065	.252	.031	.017	.012	.000	.191	.253	.000	.554	.006
U.A.E.....	1.518	.007	.000	.000	.001	.000	.005	-.003	.000	1.441	.074
Qatar.....	.378	.000	.000	.000	.000	.000	.000	.004	-	.365	.008
Saudi Arabia.....	5.029	1.906	.062	.393	.118	.291	1.042	1.406	.074	1.443	.199
Imports from OPEC-Africa											
Total.....	3.755	2.502	.074	.282	.441	.745	.961	.979	.082	.036	.156
Algeria.....	1.014	.654	.019	.131	.094	.086	.324	.285	.059	.014	.003
Libya.....	1.243	1.243	.051	.060	.246	.609	.278	.000	.000	-	.000
Nigeria.....	1.498	.605	.004	.091	.101	.050	.359	.694	.024	.023	.153
Imports from OPEC-South America											
Total.....	2.152	.206	.031	.000	.046	.012	.118	1.758	.106	.003	.080
Venezuela.....	2.152	.206	.031	.000	.046	.012	.118	1.758	.106	.003	.080
Imports from OPEC-Far East											
Total.....	.570	.017	.000	.000	.000	.014	.002	.057	.000	.378	.118
Indonesia.....	.570	.017	.000	.000	.000	.014	.002	.057	.000	.378	.118

<sup>1</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2</sup>/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

<sup>3</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>4</sup>/ "Other" consists of Australia, New Zealand, and U. S. Territories.

<sup>5</sup>/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>6</sup>/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.2 Net Oil Imports into OECD Countries, (4th Quarter 1997)**  
(Million Barrels per Day)

	Total	OECD Europe						OECD Outside Europe			
		Total	United Kingdom	France	Germany <sup>1</sup> /	Italy	Other Europe <sup>2</sup> /	United States <sup>3</sup> /	Canada	Japan	Other <sup>4</sup> /
Total Net Imports..	22.203	8.001	-0.974	1.894	2.822	2.013	2.247	8.956	-0.887	5.915	0.218
Imports from OPEC <sup>1</sup> /	16.802	6.467	.172	.935	.641	1.460	3.259	4.467	.339	4.884	.646
Imports from Persian Gulf <sup>2</sup> /											
Total.....	10.312	3.591	.093	.624	.164	.631	2.078	1.803	.121	4.573	.225
Bahrain.....	.013	.001	.000	.001	.000	.000	.000	-.001	-	.012	.001
Iran.....	1.443	.966	.002	.118	.023	.273	.549	.000	.000	.477	.000
Iraq.....	.534	.278	.000	.062	.003	.061	.153	.212	.032	.000	.012
Kuwait.....	1.050	.224	.031	.000	.013	.000	.180	.253	.000	.568	.005
U.A.E.....	1.531	.002	.002	.000	.000	.000	.000	-.003	.000	1.488	.044
Qatar.....	.456	.002	.000	.002	.000	.000	.000	.010	-	.438	.006
Saudi Arabia.....	5.285	2.118	.058	.442	.125	.297	1.196	1.331	.088	1.591	.157
Imports from OPEC-Africa											
Total.....	3.770	2.673	.058	.311	.432	.801	1.070	.820	.100	.021	.157
Algeria.....	1.020	.691	.018	.089	.113	.077	.394	.249	.079	.000	.002
Libya.....	1.207	1.207	.041	.053	.215	.646	.252	.000	.000	-	.000
Nigeria.....	1.542	.775	.000	.168	.103	.078	.424	.571	.021	.021	.155
Imports from OPEC-South America											
Total.....	2.198	.181	.021	.000	.045	.004	.110	1.776	.118	.000	.122
Venezuela.....	2.198	.181	.021	.000	.045	.004	.110	1.776	.118	.000	.122
Imports from OPEC-Far East											
Total.....	.536	.023	.000	.000	.000	.023	.000	.067	.000	.302	.144
Indonesia.....	.536	.023	.000	.000	.000	.023	.000	.067	.000	.302	.144

<sup>1</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2</sup>/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

<sup>3</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>4</sup>/ "Other" consists of Australia, New Zealand, and U. S. Territories.

<sup>5</sup>/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>6</sup>/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.3 Net Oil Imports into OECD Countries, (3rd Quarter 1997)**  
(Million Barrels per Day)

	Total	OECD Europe						OECD Outside Europe			
		Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>
Total Net Imports..	22.009	7.651	-0.821	1.715	2.857	1.708	2.192	9.306	-0.798	5.661	0.189
Imports from OPEC <sup>1/</sup>	16.330	6.324	.233	.965	.658	1.344	3.123	4.684	.346	4.444	.532
Imports from Persian Gulf <sup>2/</sup>											
Total.....	9.864	3.620	.110	.712	.176	.606	2.017	1.834	.112	4.008	.289
Bahrain.....	.026	.000	.000	.000	.000	.000	.000	-.003	-	.023	.006
Iran.....	1.474	1.037	.000	.166	.025	.254	.591	.000	.021	.416	.000
Iraq.....	.318	.262	.000	.065	.000	.027	.169	.030	.023	.000	.003
Kuwait.....	1.083	.266	.028	.045	.013	.000	.180	.294	.000	.521	.002
U.A.E.....	1.498	.021	.000	.000	.002	.000	.019	.000	.000	1.404	.073
Qatar.....	.358	.000	.000	.000	.000	.000	.000	.000	-	.349	.009
Saudi Arabia.....	5.108	2.035	.082	.436	.135	.324	1.058	1.514	.068	1.294	.197
Imports from OPEC-Africa											
Total.....	3.754	2.454	.090	.253	.423	.697	.990	1.013	.100	.059	.128
Algeria.....	.983	.625	.018	.118	.081	.078	.330	.270	.067	.021	.000
Libya.....	1.266	1.266	.062	.068	.264	.599	.273	.000	.000	-	.000
Nigeria.....	1.505	.564	.010	.068	.078	.020	.388	.743	.032	.039	.128
Imports from OPEC-South America											
Total.....	2.157	.229	.034	.000	.059	.027	.108	1.772	.134	.000	.022
Venezuela.....	2.157	.229	.034	.000	.059	.027	.108	1.772	.134	.000	.022
Imports from OPEC-Far East											
Total.....	.580	.021	.000	.000	.000	.013	.008	.061	.000	.400	.098
Indonesia.....	.580	.021	.000	.000	.000	.013	.008	.061	.000	.400	.098

1/ The data for Germany are for unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.4 OECD Total Net Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	21.324	21.396	21.851	21.444	21.869	21.967	22.199	22.908	22.314	21.391	21.718	21.685
United States <sup>1</sup> /....	8.900	9.177	9.941	9.782	8.996	9.390	9.540	9.726	9.014	8.130	8.811	9.530
Canada.....	-.712	-.724	-.796	-.763	-.640	-.860	-.896	-.706	-1.008	-.951	-1.041	-1.055
OECD Europe <sup>2</sup> /.....	6.422	6.491	7.230	7.256	7.746	7.597	7.609	8.051	8.119	7.837	7.487	7.947
Main European Importers												
France.....	1.540	1.634	1.764	1.475	1.785	1.695	1.663	1.977	1.865	1.837	1.738	2.034
Germany <sup>3</sup> /.....	2.634	2.747	2.957	2.692	3.132	2.662	2.775	2.705	2.829	2.932	2.635	2.601
Italy.....	1.690	1.359	1.794	1.638	1.666	1.662	1.800	1.881	2.046	2.111	1.971	1.886
Spain.....	1.124	1.253	1.216	1.132	1.443	1.225	1.334	1.331	1.335	1.364	1.230	1.329
Netherlands.....	.633	.977	.609	.795	.755	.999	.756	.668	.726	.827	.813	.920
European Net Exporters												
Norway.....	-3.331	-3.642	-3.301	-2.931	-3.353	-2.731	-3.224	-2.810	-3.149	-3.306	-3.429	-2.954
United Kingdom....	-.810	-.795	-.661	-.385	-.768	-.951	-.741	-.998	-.857	-1.064	-1.032	-.856
Smaller European Importers												
Austria.....	.178	.217	.222	.200	.233	.219	.212	.217	.222	.220	.206	.220
Belgium.....	.661	.569	.556	.521	.523	.629	.547	.589	.627	.645	.693	.604
Denmark.....	-.034	-.062	.017	-.015	-.026	.014	.021	.017	.009	-.065	-.044	.037
Ireland.....	.093	.165	.104	.134	.129	.096	.162	.160	.123	.157	.137	.152
Finland.....	.109	.136	.187	.180	.214	.106	.211	.234	.146	.275	.281	.178
Greece.....	.335	.332	.316	.335	.355	.407	.294	.420	.418	.353	.433	.353
Iceland.....	.020	.007	.022	.012	.020	.020	.023	.023	.014	.006	.026	.010
Luxembourg.....	.043	.040	.038	.036	.039	.037	.037	.042	.039	.045	.042	.044
Portugal.....	.315	.285	.250	.279	.318	.246	.380	.304	.215	.358	.305	.374
Sweden.....	.440	.423	.344	.319	.328	.347	.394	.353	.545	.286	.543	.221
Switzerland.....	.260	.250	.269	.293	.301	.294	.287	.269	.244	.264	.297	.283
Turkey.....	.521	.596	.527	.545	.651	.623	.678	.668	.720	.591	.640	.509
Japan.....	6.298	5.995	5.218	4.914	5.588	5.592	5.807	5.758	5.908	6.078	5.721	5.835
Other OECD.....	.416	.457	.257	.255	.179	.248	.138	.077	.281	.297	.740	-.573

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.5 OECD Imports from OPEC (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	15.849	16.289	16.024	15.510	15.733	16.354	16.921	17.083	16.657	16.663	16.455	16.150
United States <sup>1</sup> /....	4.251	4.659	4.972	4.962	4.411	4.804	4.841	4.880	4.378	4.140	4.268	4.217
Canada.....	.274	.201	.241	.255	.296	.459	.282	.398	.260	.355	.223	.289
OECD Europe <sup>2</sup> /.....	5.447	5.812	6.005	5.608	6.177	6.150	6.655	6.500	6.547	6.356	6.391	6.327
Main European Importers												
France.....	.811	.802	.753	.824	1.020	.797	1.084	1.131	.846	.826	.887	1.071
Germany <sup>3</sup> /.....	.658	.668	.683	.581	.656	.682	.636	.649	.647	.627	.601	.595
Italy.....	1.270	1.142	1.484	1.202	1.379	1.276	1.379	1.353	1.491	1.535	1.336	1.624
Spain.....	.630	.707	.703	.693	.764	.722	.864	.820	.794	1.032	.873	.917
Netherlands.....	.598	.948	.787	.699	.735	.946	.711	.774	.796	.800	.835	.513
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.007	.008	.005	.000	.000
United Kingdom....	.176	.176	.199	.219	.271	.190	.239	.170	.219	.129	.176	.215
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.096	.047	.067	.000	.000	.000	.000	.000
Belgium.....	.157	.290	.315	.309	.244	.326	.352	.328	.293	.285	.338	.276
Denmark.....	.000	.025	.049	.033	.006	.027	.067	.024	.049	.024	.024	.027
Ireland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Finland.....	.000	.000	.010	.000	.000	.000	.008	.003	.003	.009	.000	.000
Greece.....	.275	.284	.286	.294	.296	.330	.328	.377	.381	.290	.401	.293
Portugal.....	.220	.142	.180	.179	.207	.159	.291	.135	.164	.208	.147	.248
Sweden.....	.150	.127	.093	.092	.067	.089	.025	.126	.212	.048	.147	.006
Switzerland.....	.097	.063	.087	.093	.094	.101	.107	.111	.098	.093	.102	.108
Turkey.....	.404	.436	.377	.390	.342	.458	.497	.492	.547	.445	.522	.435
Japan.....	5.236	4.839	4.175	3.977	4.366	4.417	4.553	4.774	4.798	5.078	4.732	4.615
Other OECD.....	.642	.779	.631	.708	.483	.523	.591	.531	.673	.734	.841	.701

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.



**Table 3.6 OECD Imports from Persian Gulf (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	9.571	10.003	9.565	8.931	9.395	9.899	10.314	10.655	10.191	10.085	10.121	9.742
United States <sup>1</sup> /....	1.625	1.873	1.701	1.759	1.740	1.851	1.915	1.913	1.745	1.749	1.724	1.691
Canada.....	.067	.133	.137	.136	.066	.198	.071	.168	.065	.128	.007	.074
OECD Europe <sup>2</sup> /.....	2.859	3.223	3.584	3.169	3.316	3.610	3.945	3.867	3.644	3.262	3.601	3.413
Main European Importers												
France.....	.407	.599	.555	.563	.640	.644	.857	.842	.525	.503	.671	.769
Germany <sup>3</sup> /.....	.131	.189	.153	.192	.176	.187	.164	.205	.155	.131	.101	.124
Italy.....	.507	.458	.646	.526	.618	.571	.629	.645	.603	.645	.476	.686
Spain.....	.355	.388	.413	.287	.318	.358	.425	.411	.336	.373	.410	.394
Netherlands.....	.456	.569	.642	.515	.562	.679	.488	.601	.699	.598	.574	.419
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
United Kingdom....	.084	.078	.107	.124	.123	.091	.115	.081	.129	.069	.078	.059
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.064	.003	.046	.000	.000	.000	.000	.000
Belgium.....	.119	.233	.285	.250	.228	.292	.331	.309	.278	.265	.326	.251
Denmark.....	.000	.000	.000	.000	.000	.000	.023	.000	.000	.000	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Greece.....	.232	.251	.254	.243	.264	.287	.292	.332	.334	.264	.369	.250
Portugal.....	.164	.052	.161	.138	.069	.094	.190	.051	.085	.121	.078	.173
Sweden.....	.132	.070	.064	.067	.067	.065	.000	.094	.165	.028	.129	.000
Switzerland.....	.005	.010	.014	.014	.009	.009	.005	.014	.005	.000	.004	.000
Turkey.....	.267	.327	.289	.249	.178	.330	.378	.282	.331	.264	.385	.287
Japan.....	4.705	4.499	3.816	3.505	3.909	3.972	4.147	4.515	4.528	4.674	4.453	4.252
Other OECD.....	.315	.276	.327	.361	.364	.267	.236	.192	.209	.272	.336	.312

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.7 United States--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	8.900	9.177	9.941	9.782	8.996	9.390	9.540	9.726	9.014	8.130	8.811	9.530
Imports from OPEC <sup>1/</sup>	4.251	4.659	4.972	4.962	4.411	4.804	4.841	4.880	4.378	4.140	4.268	4.217
Imports from Persian Gulf <sup>2/</sup>												
Total.....	1.625	1.873	1.701	1.759	1.740	1.851	1.915	1.913	1.745	1.749	1.724	1.691
Bahrain.....	-.003	.000	.000	.000	-.003	-.003	-.003	-.003	.000	.000	-.003	-.004
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.035	.084	.102	.115	.088	.000	.000	.177	.220	.240	.036	.000
Kuwait.....	.315	.204	.128	.361	.331	.229	.322	.349	.220	.188	.194	.283
U.A.E.....	-.014	-.003	-.003	-.016	.011	-.009	-.003	-.002	-.003	-.003	-.003	-.003
Qatar.....	.000	.015	.000	.000	.000	.000	.000	.016	.000	.015	.000	.000
Saudi Arabia.....	1.292	1.573	1.474	1.299	1.313	1.634	1.599	1.376	1.308	1.309	1.500	1.415
Imports from OPEC-Africa												
Total.....	.851	1.076	1.280	1.268	.871	1.143	1.026	.949	.891	.622	.919	.807
Algeria.....	.309	.320	.290	.349	.291	.261	.259	.272	.267	.208	.306	.295
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.542	.756	.990	.919	.580	.882	.767	.677	.624	.414	.613	.512
Imports from OPEC-South America												
Total.....	1.754	1.670	1.905	1.881	1.724	1.786	1.807	1.973	1.666	1.685	1.586	1.694
Venezuela.....	1.754	1.670	1.905	1.881	1.724	1.786	1.807	1.973	1.666	1.685	1.586	1.694
Imports from OPEC-Far East												
Total.....	.018	.040	.086	.054	.073	.021	.090	.042	.076	.084	.036	.021
Indonesia.....	.018	.040	.086	.054	.073	.021	.090	.042	.076	.084	.036	.021

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	6.298	5.995	5.218	4.914	5.588	5.592	5.807	5.758	5.908	6.078	5.721	5.835
Imports from OPEC <sup>1</sup> /	5.236	4.839	4.175	3.977	4.366	4.417	4.553	4.774	4.798	5.078	4.732	4.615
Imports from												
Persian Gulf <sup>2</sup> /												
Total.....	4.705	4.499	3.816	3.505	3.909	3.972	4.147	4.515	4.528	4.674	4.453	4.252
Bahrain.....	.029	.045	.031	.008	.017	.015	.037	.008	.001	.026	.028	.006
Iran.....	.669	.316	.409	.253	.466	.319	.464	.401	.505	.525	.550	.453
Iraq.....	.000	.061	.059	.000	.000	.000	.000	.000	.000	.000	.000	.000
Kuwait.....	.548	.640	.464	.523	.473	.515	.578	.531	.551	.621	.583	.523
U.A.E.....	1.488	1.570	1.220	1.180	1.366	1.420	1.428	1.390	1.605	1.474	1.545	1.583
Qatar.....	.397	.349	.350	.291	.319	.410	.316	.431	.410	.471	.469	.411
Saudi Arabia.....	1.574	1.516	1.284	1.251	1.267	1.294	1.323	1.755	1.455	1.558	1.278	1.276
Imports from												
OPEC-Africa												
Total.....	.000	.016	.046	.100	.073	.032	.074	.000	.000	.062	.000	.013
Algeria.....	.000	.016	.046	.041	.013	.032	.018	.000	.000	.000	.000	.013
Nigeria.....	.000	.000	.000	.059	.060	.000	.057	.000	.000	.062	.000	.000
Imports from												
OPEC-South America												
Total.....	.011	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
Venezuela.....	.011	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
Imports from												
OPEC-Far East												
Total.....	.549	.369	.344	.380	.401	.428	.369	.267	.271	.367	.307	.356
Indonesia.....	.549	.369	.344	.380	.401	.428	.369	.267	.271	.367	.307	.356

<sup>1</sup>/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2</sup>/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis.

•Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	6.422	6.491	7.230	7.256	7.746	7.597	7.609	8.051	8.119	7.837	7.487	7.947
Imports from OPEC <sup>1/</sup>	5.447	5.812	6.005	5.608	6.177	6.150	6.655	6.500	6.547	6.356	6.391	6.327
Imports from Persian Gulf <sup>2/</sup>												
Total.....	2.859	3.223	3.584	3.169	3.316	3.610	3.945	3.867	3.644	3.262	3.601	3.413
Bahrain.....	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001	.000	.034
Iran.....	.813	.875	1.157	.964	.913	1.169	1.028	1.021	.986	.891	.844	.780
Iraq.....	.344	.404	.471	.036	.000	.186	.611	.475	.200	.158	.295	.435
Kuwait.....	.222	.217	.248	.240	.248	.210	.343	.262	.226	.185	.205	.321
U.A.E.....	.002	.003	.002	.002	.056	.004	.001	.005	.000	.000	.001	.005
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000
Saudi Arabia.....	1.478	1.723	1.705	1.927	2.098	2.041	1.963	2.104	2.232	2.021	2.254	1.838
Imports from OPEC-Africa												
Total.....	2.455	2.264	2.187	2.204	2.640	2.275	2.447	2.465	2.689	2.864	2.604	2.685
Algeria.....	.639	.694	.551	.542	.660	.653	.559	.647	.718	.710	.832	.536
Libya.....	1.271	1.110	1.295	1.333	1.296	1.264	1.236	1.166	1.206	1.249	1.210	1.344
Nigeria.....	.545	.461	.341	.328	.684	.358	.652	.652	.765	.906	.562	.805
Imports from OPEC-South America												
Total.....	.132	.324	.208	.229	.210	.250	.226	.165	.182	.197	.156	.200
Venezuela.....	.132	.324	.208	.229	.210	.250	.226	.165	.182	.197	.156	.200
Imports from OPEC-Far East												
Total.....	.000	.000	.026	.006	.011	.017	.037	.003	.032	.034	.030	.063
Indonesia.....	.000	.000	.026	.006	.011	.017	.037	.003	.032	.034	.030	.063

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.10 France--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	1.540	1.634	1.764	1.475	1.785	1.695	1.663	1.977	1.865	1.837	1.738	2.034
Imports from OPEC <sup>1/</sup>	.811	.802	.753	.824	1.020	.797	1.084	1.131	.846	.826	.887	1.071
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.407	.599	.555	.563	.640	.644	.857	.842	.525	.503	.671	.769
Bahrain.....	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001	.000	.012
Iran.....	.107	.153	.102	.131	.127	.206	.166	.172	.104	.079	.171	.142
Iraq.....	.102	.082	.154	.002	.000	.064	.133	.149	.033	.002	.120	.073
Kuwait.....	.002	.003	.000	.000	.063	.003	.069	.000	.000	.000	.003	.093
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000
Saudi Arabia.....	.196	.361	.299	.429	.450	.370	.489	.521	.388	.416	.376	.444
Imports from OPEC-Africa												
Total.....	.405	.204	.196	.261	.379	.153	.227	.288	.321	.323	.216	.313
Algeria.....	.187	.124	.115	.138	.195	.091	.065	.060	.116	.092	.129	.053
Libya.....	.063	.080	.051	.102	.110	.027	.066	.058	.060	.043	.000	.062
Nigeria.....	.154	.000	.030	.022	.074	.035	.096	.170	.146	.189	.087	.197
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Venezuela.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Imports from OPEC-Far East												
Total.....	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.000	.000
Indonesia.....	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.000	.000

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	2.634	2.747	2.957	2.692	3.132	2.662	2.775	2.705	2.829	2.932	2.635	2.601
Imports from OPEC <sup>1/</sup>	.658	.668	.683	.581	.656	.682	.636	.649	.647	.627	.601	.595
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.131	.189	.153	.192	.176	.187	.164	.205	.155	.131	.101	.124
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Iran.....	.028	.029	.016	.037	.022	.037	.017	.041	.019	.010	.004	.000
Iraq.....	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.000
Kuwait.....	.010	.020	.009	.013	.014	.009	.016	.012	.014	.013	.004	.020
U.A.E.....	.000	.002	.002	.002	.005	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Saudi Arabia.....	.094	.137	.125	.140	.135	.141	.130	.152	.113	.108	.093	.104
Imports from OPEC-Africa												
Total.....	.483	.416	.470	.352	.378	.459	.431	.401	.449	.446	.490	.439
Algeria.....	.106	.108	.054	.070	.061	.092	.091	.106	.087	.146	.125	.091
Libya.....	.256	.182	.318	.261	.252	.273	.267	.215	.261	.172	.241	.288
Nigeria.....	.121	.126	.097	.021	.066	.095	.073	.080	.102	.128	.124	.059
Imports from OPEC-South America												
Total.....	.043	.064	.059	.037	.101	.036	.041	.043	.043	.051	.006	.032
Venezuela.....	.043	.064	.059	.037	.101	.036	.041	.043	.043	.051	.006	.032
Imports from OPEC-Far East												
Total.....	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000	.004	.000
Indonesia.....	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000	.004	.000

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total Net Imports..	1.690	1.359	1.794	1.638	1.666	1.662	1.800	1.881	2.046	2.111	1.971	1.886
Imports from OPEC <sup>1/</sup>	1.270	1.142	1.484	1.202	1.379	1.276	1.379	1.353	1.491	1.535	1.336	1.624
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.507	.458	.646	.526	.618	.571	.629	.645	.603	.645	.476	.686
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.022
Iran.....	.250	.147	.365	.256	.232	.259	.272	.261	.242	.316	.185	.195
Iraq.....	.032	.000	.049	.000	.000	.021	.062	.095	.022	.063	.000	.067
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.005
U.A.E.....	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.223	.311	.232	.270	.386	.291	.295	.288	.338	.266	.291	.397
Imports from OPEC-Africa												
Total.....	.756	.669	.814	.669	.699	.670	.723	.705	.850	.851	.787	.878
Algeria.....	.073	.141	.101	.059	.058	.073	.104	.056	.128	.049	.135	.086
Libya.....	.617	.492	.684	.610	.612	.597	.588	.600	.611	.725	.595	.617
Nigeria.....	.066	.036	.029	.000	.030	.000	.031	.048	.111	.077	.056	.175
Imports from OPEC-South America												
Total.....	.007	.016	.000	.000	.051	.018	.013	.000	.006	.007	.048	.020
Venezuela.....	.007	.016	.000	.000	.051	.018	.013	.000	.006	.007	.048	.020
Imports from OPEC-Far East												
Total.....	.000	.000	.024	.006	.010	.017	.013	.003	.032	.032	.025	.062
Indonesia.....	.000	.000	.024	.006	.010	.017	.013	.003	.032	.032	.025	.062

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)**  
(Million Barrels per Day for Crude Oil, Natural Gas Liquids and Refined Products)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	0.380	0.537	0.636	0.155	0.097	0.186	0.682	0.690	0.492	0.420	0.332	0.435
United States <sup>2/</sup> .....	.035	.084	.102	.115	.088	.000	.000	.177	.220	.240	.036	.000
Canada.....	.000	.000	.000	.000	.000	.000	.071	.033	.065	.000	.000	.000
OECD Europe <sup>3/</sup> .....	.344	.404	.471	.036	.000	.186	.611	.475	.200	.158	.295	.435
Main European Importers												
France.....	.102	.082	.154	.002	.000	.064	.133	.149	.033	.002	.120	.073
Germany <sup>4/</sup> .....	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.000
Italy.....	.032	.000	.049	.000	.000	.021	.062	.095	.022	.063	.000	.067
Spain.....	.097	.131	.066	.033	.000	.066	.135	.150	.030	.058	.080	.111
Netherlands.....	.000	.094	.031	.000	.000	.017	.000	.063	.072	.000	.000	.000
European Net Exporters												
United Kingdom....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.033	.000	.000	.000	.000	.000
Belgium.....	.008	.014	.053	.000	.000	.000	.000	.000	.000	.000	.000	.014
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Greece.....	.000	.000	.000	.000	.000	.000	.032	.000	.020	.028	.032	.000
Portugal.....	.034	.000	.031	.000	.000	.000	.063	.000	.000	.000	.000	.037
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Switzerland.....	.000	.010	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.071	.074	.081	.000	.000	.017	.152	.017	.013	.007	.064	.133
Japan.....	.000	.061	.059	.000	.000	.000	.000	.000	.000	.000	.000	.000
Other OECD.....	.001	-.012	.004	.004	.009	.000	.000	.006	.007	.022	.001	.000

<sup>1/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

<sup>3/</sup> Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.



**Table 3.14 OECD Imports from Kuwait (Most Recent 12 Months)**  
(Million Barrels per Day)

	1997										1998	
	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb
Total.....	1.096	1.064	0.853	1.131	1.054	0.955	1.244	1.145	0.999	1.004	0.984	1.141
United States <sup>1</sup> /....	.315	.204	.128	.361	.331	.229	.322	.349	.220	.188	.194	.283
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
OECD Europe <sup>2</sup> /.....	.222	.217	.248	.240	.248	.210	.343	.262	.226	.185	.205	.321
Main European Importers												
France.....	.002	.003	.000	.000	.063	.003	.069	.000	.000	.000	.003	.093
Germany <sup>3</sup> /.....	.010	.020	.009	.013	.014	.009	.016	.012	.014	.013	.004	.020
Italy.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.005
Spain.....	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.158	.125	.205	.184	.117	.156	.205	.206	.160	.128	.183	.123
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
United Kingdom....	.029	.029	.027	.028	.028	.027	.029	.029	.036	.028	.000	.059
Smaller European Importers												
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Belgium.....	.008	.024	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.000	.000	.000	.000	.000	.000	.023	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Portugal.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Turkey.....	.012	.016	.000	.016	.025	.014	.001	.015	.016	.016	.015	.020
Japan.....	.548	.640	.464	.523	.473	.515	.578	.531	.551	.621	.583	.523
Other OECD.....	.011	.002	.013	.006	.002	.002	.002	.003	.002	.011	.001	.014

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

## Sources for Section 3 (International Oil Imports)

### Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1997 and Petroleum Supply Monthly, May 1998.  
Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1991-1998.

## **4. Historical Oil Data Series**

**1970-1997**

**Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1997**  
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene- zuela	Total OPEC
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average.....	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
1978 Average.....	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average.....	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average.....	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average.....	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average.....	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average.....	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average.....	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,188	510	8,218	2,278	3,053	26,764
1997 Average P.....	1,277	1,546	3,664	1,187	2,083	1,446	2,317	649	8,562	2,316	3,315	28,362

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through 1989 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

**Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1997**  
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea <sup>1/</sup>	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average P.....	3,153	2,517	5,843	720	835	588	833	1,893	3,200	662	381

<sup>1/</sup> North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

P=Preliminary.

Sources: See end of Section 4.

**Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1997**  
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other <sup>1/</sup>	World
1970 Average.....	326	109	144	18	487	332	--	6,985	80	9,637	1,529	45,886
1971 Average.....	293	115	143	69	486	294	--	7,475	100	9,463	1,518	48,518
1972 Average.....	231	125	156	93	505	282	--	7,890	124	9,441	1,592	51,138
1973 Average.....	165	150	147	91	465	293	--	8,324	105	9,208	1,667	55,679
1974 Average.....	150	202	156	81	571	290	--	8,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636	52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620	57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655	59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706	60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821	62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842	59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859	56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892	53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946	53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015	54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,228	60,212
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,280	60,238
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,382	60,992
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,410	62,331
1996 Average.....	922	368	651	695	2,855	883	5,850	--	604	6,465	3,509	64,054
1997 Average P....	874	368	675	746	3,023	887	5,884	--	561	R6,452	3,706	R66,317

<sup>1/</sup> Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. P=Preliminary. R=Revised data.

Sources: See end of Section 4.

**Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1997**  
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene- zuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,097	22,458
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,600	548	2,034	1,378	1,887	409	8,147	2,183	2,542	24,812
1995 Average ..	767	1,343	3,608	550	2,057	1,390	1,876	449	8,231	2,197	2,710	25,179
1996 Average ..	812	1,367	3,651	579	2,062	1,401	2,051	475	8,218	2,198	3,013	25,826
1997 Average P.	847	1,366	3,629	1,182	2,083	1,446	2,217	614	8,562	2,236	3,275	27,457

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.

Sources: See end of Section 4.

**Table 4.3 World Natural Gas Plant Liquids Production, 1970-1997**  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1970 Average.....	3	200	58	50	--	120	1,660	119	137	205	2,383
1971 Average.....	4	234	59	50	--	135	1,693	138	147	243	2,508
1972 Average.....	4	293	61	55	--	155	1,744	155	159	275	2,676
1973 Average.....	9	314	75	90	--	170	1,738	191	196	324	2,785
1974 Average.....	12	314	80	130	--	190	1,688	231	219	347	2,789
1975 Average.....	20	309	80	140	--	205	1,633	246	252	372	2,790
1976 Average.....	24	289	95	185	--	220	1,603	291	313	442	2,865
1977 Average.....	19	290	105	215	--	235	1,618	335	366	482	2,982
1978 Average.....	25	281	115	250	--	255	1,567	410	447	566	3,078
1979 Average.....	30	331	150	303	--	270	1,584	458	535	637	3,285
1980 Average.....	36	331	193	369	--	285	1,573	534	618	732	3,444
1981 Average.....	49	330	241	433	--	300	1,609	599	691	825	3,625
1982 Average.....	58	318	255	430	--	315	1,550	612	721	842	3,626
1983 Average.....	56	309	265	330	--	330	1,559	552	655	780	3,635
1984 Average.....	105	336	257	355	--	340	1,630	604	761	869	3,869
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,975
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,181
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,293
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,582
1997 Average P.....	145	631	386	723	200	--	R1,817	1,108	1,310	1,488	R5,571

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.  
See Appendix A for countries in these groups.

P=Preliminary. R=Revised data.

Sources: See end of Section 4.



**Table 4.4 World Oil Supply, 1970-1997**  
(Thousand Barrels per Day)

	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,152
1981 Average.....	10,739	15,894	17,619	23,393	60,761
1982 Average.....	10,783	12,815	13,786	19,702	58,225
1983 Average.....	10,788	11,676	12,416	18,352	58,054
1984 Average.....	11,107	11,433	12,619	18,389	59,644
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,960
1993 Average.....	9,602	17,792	18,505	26,610	67,361
1994 Average.....	9,413	18,072	18,745	27,031	68,250
1995 Average .....	9,400	18,351	19,069	27,566	69,860
1996 Average .....	9,445	18,486	19,259	28,321	71,764
1997 Average P.....	R9,461	19,641	20,407	29,905	R74,091

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

P=Preliminary. R=Revised data.

Note: Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B.

Sources: See end of Section 4.

**Table 4.5 Oil Stocks in OECD Countries, End of Year**  
(Million Barrels)

		France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD
1973	December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974	December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975	December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976	December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977	December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978	December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979	December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980	December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981	December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982	December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983	December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984	December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December .....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December .....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December .....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December P....	164	147	298	103	1,250	R1,560	114	685	72	R3,682

<sup>1/</sup> Data through December 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. R=Revised data.

Note: Oil Stocks - See Explanatory Note 2 in Appendix B.

Sources: See end of Section 4.

**Table 4.6 World Oil Demand, 1970-1997**  
(Thousand Barrels per Day)

	France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	OECD Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	300	37,871	65,917
1990 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475	282	37,758	65,985
1991 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	--	--	38,067	66,577
1992 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	--	--	38,768	66,742
1993 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	--	--	38,967	67,043
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	--	--	39,890	68,313
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,243	--	--	40,553	69,926
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,191	--	--	41,432	71,524
1997 Average P.	1,950	2,054	2,910	R1,804	R14,406	R18,620	1,865	5,709	1,135	--	--	R41,735	R73,350

1/ Data through 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. R=Revised data. --=Not Applicable.

Note: The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition.

Sources: See end of Section 4.

**Table 4.7 OECD Total Net Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total.....	18.008	18.706	20.082	20.456	20.414	20.783	21.226	21.133	20.717	21.455	21.968
United States <sup>1</sup> /....	5.914	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158
Canada.....	-.358	-.585	-.462	-.425	-.479	-.546	-.586	-.623	-.756	-.803	-.810
OECD Europe <sup>2</sup> /.....	7.742	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.339	7.487
Main European Importers											
France.....	1.742	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.738	1.758
Germany <sup>3</sup> /.....	2.281	2.279	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.793	2.807
Italy.....	1.718	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.791	1.795
Netherlands.....	.562	.646	.635	.677	.690	.713	.688	.720	.700	.763	.771
Spain.....	.803	.869	.952	.950	.951	.998	1.066	1.119	1.202	1.183	1.273
European Net Exporters											
Norway.....	-.866	-1.036	-1.420	-1.543	-1.825	-2.102	-2.254	-2.586	-2.794	-3.150	-3.176
United Kingdom....	-1.015	-.760	-.200	-.214	-.158	-.221	-.355	-.850	-.969	-.839	-.821
Smaller European Importers											
Austria.....	.194	.185	.191	.201	.212	.209	.205	.210	.194	.213	.214
Belgium.....	.443	.451	.454	.442	.506	.517	.503	.517	.495	.572	.593
Denmark.....	.122	.107	.078	.063	.048	.032	.023	.027	.039	.028	-.006
Ireland.....	.081	.076	.079	.095	.094	.097	.102	.109	.116	.124	.133
Finland.....	.242	.200	.220	.208	.211	.188	.182	.234	.145	.180	.183
Greece.....	.230	.242	.252	.273	.297	.326	.327	.292	.343	.350	.361
Iceland.....	.013	.012	.011	.011	.012	.011	.014	.015	.015	.015	.016
Luxembourg.....	.028	.028	.031	.034	.039	.040	.039	.040	.036	.039	.040
Portugal.....	.199	.198	.246	.250	.258	.279	.272	.270	.291	.274	.296
Sweden.....	.309	.313	.290	.324	.312	.320	.335	.362	.356	.405	.373
Switzerland.....	.254	.258	.254	.273	.273	.277	.250	.262	.248	.260	.270
Turkey.....	.402	.397	.384	.425	.366	.413	.500	.490	.569	.600	.606
Japan.....	4.418	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.790	5.820
Other OECD.....	.291	.250	.313	.270	.392	.467	.599	.580	.644	.632	.314

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.8 OECD Imports from OPEC, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total.....	12.327	13.049	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.329
United States <sup>1</sup> /.....	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542
Canada.....	.154	.161	.205	.199	.210	.210	.268	.285	.257	.261	.308
OECD Europe <sup>2</sup> /.....	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.138
Main European Importers											
France.....	.684	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899
Germany <sup>3</sup> /.....	.675	.761	.739	.771	.859	.957	.948	.838	.711	.660	.643
Italy.....	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353
Netherlands.....	.767	.850	.892	.850	.900	.914	.982	.906	.791	.779	.764
Spain.....	.543	.604	.686	.652	.700	.632	.582	.668	.781	.775	.789
European Net Exporters											
Norway.....	.002	.002	.003	.007	.014	.004	.005	.003	.003	.001	.003
United Kingdom....	.277	.322	.342	.406	.377	.390	.439	.306	.254	.234	.198
Smaller European Importers											
Austria.....	.087	.082	.086	.097	.108	.115	.128	.119	.057	.023	.018
Belgium.....	.257	.302	.353	.313	.362	.359	.359	.284	.276	.284	.285
Denmark.....	.053	.067	.069	.044	.006	.001	.006	.008	.022	.027	.031
Ireland.....	.001	-	-	.000	.000	.000	.000	.000	.000	.000	.000
Finland.....	.023	.011	.013	.013	.029	.033	.007	.004	.004	.001	.003
Greece.....	.279	.233	.244	.340	.298	.346	.303	.266	.263	.280	.316
Portugal.....	.101	.118	.156	.166	.139	.152	.166	.227	.209	.177	.188
Sweden.....	.062	.074	.064	.073	.105	.116	.123	.126	.109	.091	.107
Switzerland.....	.069	.051	.021	.036	.052	.051	.063	.082	.083	.098	.096
Turkey.....	.411	.439	.384	.388	.365	.412	.452	.475	.477	.483	.445
Japan.....	3.198	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.696
Other OECD.....	.389	.298	.355	.510	.478	.512	.609	.563	.612	.653	.644

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.9 OECD Imports from Persian Gulf, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Imports from Persian Gulf											
Total.....	7.392	7.941	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.875
United States <sup>1/</sup> ....	1.072	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747
Canada.....	.054	.056	.069	.081	.084	.092	.105	.119	.070	.111	.120
OECD Europe <sup>2/</sup> .....	3.330	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.414
Main European Importers											
France.....	.459	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617
Germany <sup>3/</sup> .....	.187	.197	.216	.217	.227	.215	.250	.217	.172	.145	.156
Italy.....	.782	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583
Netherlands.....	.516	.587	.663	.647	.609	.650	.744	.662	.563	.566	.574
Spain.....	.295	.306	.352	.291	.281	.231	.287	.275	.324	.304	.359
European Net Exporters											
Norway.....	.002	-	-	.000	.011	.000	.000	.000	.000	.000	.000
United Kingdom...	.164	.212	.240	.250	.222	.220	.303	.174	.135	.102	.094
Smaller European Importers											
Austria.....	.026	.025	.022	.016	.021	.031	.036	.038	.035	.004	.009
Belgium.....	.162	.224	.277	.250	.279	.292	.291	.232	.252	.263	.253
Denmark.....	.047	.063	.067	.043	.004	.000	.002	.000	.000	.000	.002
Finland.....	.022	.011	.012	.011	.021	.023	.002	.002	.002	.000	.000
Greece.....	.211	.146	.181	.268	.219	.291	.253	.214	.223	.235	.277
Portugal.....	.069	.066	.085	.073	.067	.074	.050	.117	.107	.083	.106
Sweden.....	.029	.045	.043	.039	.064	.068	.088	.076	.068	.067	.080
Switzerland.....	.008	.007	.007	.007	.007	.007	.008	.012	.007	.006	.008
Turkey.....	.348	.411	.323	.307	.324	.349	.429	.405	.336	.320	.297
Japan.....	2.637	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.301
Other OECD.....	.299	.241	.267	.322	.300	.338	.381	.316	.334	.313	.293

<sup>1/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.10 United States--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	5.914	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158
Imports from OPEC <sup>1/</sup>	2.988	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542
Imports from Persian Gulf <sup>2/</sup>											
Total.....	1.072	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747
Bahrain.....	-.001	.000	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002
Iran.....	.098	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000
Iraq.....	.083	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089
Kuwait.....	.082	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253
U.A.E.....	.059	.028	.027	.016	.001	.004	.009	.011	.004	-.003	-.003
Qatar.....	.000	.000	.002	.004	.000	.001	.001	.000	.000	.000	.004
Saudi Arabia.....	.751	1.063	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406
Imports from OPEC-Africa											
Total.....	.830	.918	1.084	1.080	.956	.876	.956	.880	.859	.872	.979
Algeria.....	.295	.300	.269	.280	.253	.196	.220	.243	.234	.256	.285
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.535	.618	.815	.800	.703	.680	.736	.637	.625	.616	.694
Imports from OPEC-South America											
Total.....	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758
Venezuela.....	.801	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758
Imports from OPEC-Far East											
Total.....	.284	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057
Indonesia.....	.284	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.11 Japan--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	4.418	4.680	5.035	5.239	5.286	5.464	5.467	5.766	5.716	5.790	5.820
Imports from OPEC <sup>1/</sup>	3.198	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.696
Imports from Persian Gulf <sup>2/</sup>											
Total.....	2.637	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.301
Bahrain.....	.037	.036	.042	.037	.037	.029	.025	.028	.029	.033	.022
Iran.....	.230	.187	.291	.385	.383	.362	.384	.459	.399	.451	.460
Iraq.....	.105	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015
Kuwait.....	.347	.341	.458	.291	.014	.220	.368	.430	.501	.500	.554
U.A.E.....	.773	.822	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441
Qatar.....	.139	.203	.250	.263	.285	.300	.330	.328	.335	.335	.365
Saudi Arabia.....	1.005	.930	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.443
Imports from OPEC-Africa											
Total.....	.023	.044	.015	.011	.011	.007	.008	.017	.026	.032	.036
Algeria.....	.023	.044	.015	.010	.010	.007	.008	.012	.011	.012	.014
Nigeria.....	-	-	-	.001	.001	.000	.000	.005	.016	.020	.023
Imports from OPEC-South America											
Total.....	.012	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003
Venezuela.....	.012	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003
Imports from OPEC-Far East											
Total.....	.563	.599	.631	.682	.673	.624	.533	.551	.488	.442	.378
Indonesia.....	.563	.599	.631	.682	.673	.624	.533	.551	.488	.442	.378

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.



**Table 4.12 OECD Europe--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	7.742	7.774	7.994	8.210	8.588	8.459	8.127	7.355	7.226	7.339	7.487
Imports from OPEC <sup>1/</sup>	5.597	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.138
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.330	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.414
Bahrain.....	.001	.009	.005	.020	.002	.003	.004	.003	.000	.001	.001
Iran.....	.732	.850	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.955
Iraq.....	.905	.959	.897	.591	.000	.000	.001	.000	.000	.006	.294
Kuwait.....	.469	.474	.452	.346	.019	.142	.461	.302	.269	.288	.252
U.A.E.....	.206	.134	.214	.446	.281	.199	.092	.067	.011	.004	.007
Qatar.....	.040	.021	.024	.026	.009	.006	.000	.000	.002	.002	.000
Saudi Arabia.....	.978	.981	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.906
Imports from OPEC-Africa											
Total.....	2.058	2.198	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.502
Algeria.....	.627	.646	.648	.683	.757	.772	.693	.690	.724	.746	.654
Libya.....	.962	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.243
Nigeria.....	.469	.481	.532	.559	.729	.686	.605	.721	.575	.694	.605
Imports from OPEC-South America											
Total.....	.208	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206
Venezuela.....	.208	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206
Imports from OPEC-Far East											
Total.....	.002	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017
Indonesia.....	.002	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.13 France--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	1.742	1.718	1.711	1.750	1.869	1.784	1.761	1.615	1.721	1.738	1.758
Imports from OPEC <sup>1/</sup>	.684	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.459	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617
Bahrain.....	-	.007	.002	.011	.000	.001	.002	.000	.000	.001	.000
Iran.....	.088	.012	.158	.182	.171	.151	.243	.156	.208	.172	.127
Iraq.....	.151	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078
Kuwait.....	.044	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017
U.A.E.....	-	.017	.040	.233	.064	.033	.025	.003	.002	.001	.000
Qatar.....	.002	.017	.009	.022	.003	.002	.000	.000	.000	.000	.000
Saudi Arabia.....	.175	.271	.288	.339	.459	.424	.454	.477	.416	.381	.393
Imports from OPEC-Africa											
Total.....	.212	.249	.218	.233	.296	.281	.242	.301	.262	.323	.282
Algeria.....	.072	.079	.089	.092	.107	.105	.066	.089	.103	.105	.131
Libya.....	.064	.090	.065	.079	.104	.087	.063	.059	.043	.051	.060
Nigeria.....	.076	.079	.064	.062	.084	.090	.112	.153	.115	.168	.091
Imports from OPEC-South America											
Total.....	.012	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000
Venezuela.....	.012	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000
Imports from OPEC-Far East											
Total.....	-	-	.000	.000	.001	.001	.000	.000	.000	.000	.000
Indonesia.....	-	-	.000	.000	.001	.001	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.14 Germany--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	2.281	2.279	2.112	2.202	2.664	2.739	2.723	2.731	2.699	2.793	2.807
Imports from OPEC <sup>1</sup> /	.675	.761	.739	.771	.859	.957	.948	.838	.711	.660	.643
Imports from											
Persian Gulf <sup>2</sup> /											
Total.....	.187	.197	.216	.217	.227	.215	.250	.217	.172	.145	.156
Bahrain.....	-	-	-	-	-	-	.000	.001	.000	.000	.000
Iran.....	.020	.051	.041	.055	.053	.021	.053	.040	.031	.018	.023
Iraq.....	.052	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001
Kuwait.....	.017	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012
U.A.E.....	.024	.006	.023	.016	.012	.002	.002	.001	.000	.000	.001
Qatar.....	.001	.001	.002	.003	.002	.001	.000	.000	.000	.000	.000
Saudi Arabia.....	.072	.095	.119	.125	.161	.182	.173	.149	.125	.111	.118
Imports from OPEC-Africa											
Total.....	.401	.472	.436	.465	.524	.614	.594	.543	.461	.462	.441
Algeria.....	.146	.141	.106	.098	.126	.183	.195	.161	.135	.125	.094
Libya.....	.160	.237	.235	.244	.262	.252	.244	.244	.234	.258	.246
Nigeria.....	.095	.095	.095	.123	.136	.179	.154	.139	.093	.079	.101
Imports from											
OPEC-South America											
Total.....	.086	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046
Venezuela.....	.086	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046
Imports from OPEC-Far East											
Total.....	.002	-	-	.002	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.002	-	-	.002	.000	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.15 Italy--Net Oil Imports, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total Net Imports..	1.718	1.590	1.716	1.788	1.769	1.839	1.747	1.778	1.820	1.791	1.795
Imports from OPEC <sup>1/</sup>	1.307	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.782	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583
Bahrain.....	.000	-	.001	.000	.001	.001	.000	.000	.000	.001	.000
Iran.....	.141	.093	.124	.192	.231	.239	.221	.143	.233	.263	.258
Iraq.....	.167	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033
Kuwait.....	.142	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000
U.A.E.....	.109	.060	.085	.075	.044	.013	.002	.000	.000	.000	.000
Qatar.....	.029	.002	.008	.000	.004	.001	.000	.000	.002	.002	.000
Saudi Arabia.....	.194	.171	.171	.216	.315	.312	.313	.286	.260	.236	.291
Imports from OPEC-Africa											
Total.....	.489	.516	.626	.740	.793	.757	.653	.660	.679	.714	.745
Algeria.....	.109	.108	.150	.155	.155	.140	.096	.099	.100	.110	.086
Libya.....	.342	.389	.430	.556	.581	.584	.542	.543	.562	.580	.609
Nigeria.....	.038	.019	.045	.029	.057	.034	.015	.018	.017	.025	.050
Imports from OPEC-South America											
Total.....	.037	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012
Venezuela.....	.037	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012
Imports from OPEC-Far East											
Total.....	-	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014
Indonesia.....	-	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.16 OECD Imports from Iraq, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total.....	1.103	1.489	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.415
United States <sup>1</sup> /.....	.083	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089
Canada.....	.010	.001	.013	.011	.000	.000	.000	.000	.000	.000	.014
OECD Europe <sup>2</sup> /.....	.905	.959	.897	.591	.000	.000	.001	.000	.000	.006	.294
Main European Importers											
France.....	.151	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078
Germany <sup>3</sup> /.....	.052	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001
Italy.....	.167	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033
Netherlands.....	.034	.039	.101	.117	.000	.000	.000	.000	.000	.000	.024
Spain.....	.080	.092	.109	.063	.000	.000	.000	.000	.000	.002	.074
European Net Exporters											
United Kingdom....	.082	.070	.034	.027	.000	.000	.000	.000	.000	.000	.000
Smaller European Importers											
Austria.....	.015	.007	.000	.000	.000	.000	.001	.000	.000	.000	.003
Belgium.....	.049	.037	.047	.029	.000	.000	.000	.000	.000	.000	.010
Denmark.....	.001	-	-	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.065	.059	.052	.044	.000	.000	.000	.000	.000	.000	.008
Portugal.....	.019	.029	.024	.019	.000	.000	.000	.000	.000	.000	.011
Sweden.....	.003	.003	.005	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	-	.000	.000	.000	.000	.000	.000	.000	.000	.001
Turkey.....	.188	.250	.250	.146	.000	.000	.000	.000	.000	.003	.052
Japan.....	.105	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015
Other OECD.....	.000	.013	.003	.011	.000	.000	.000	.000	.000	.000	.003

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

**Table 4.17 OECD Imports from Kuwait, 1987-1997**  
(Million Barrels per Day)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
	Average										
Total.....	0.925	0.936	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065
United States <sup>1</sup> /....	.082	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253
Canada.....	-	-	-	.004	-	-	.000	.027	.000	.000	.000
OECD Europe <sup>2</sup> /.....	.469	.474	.452	.346	.019	.142	.461	.302	.269	.288	.252
Main European Importers											
France.....	.044	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017
Germany <sup>3</sup> /.....	.017	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012
Italy.....	.142	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000
Netherlands.....	.150	.189	.194	.151	.002	.052	.254	.179	.176	.193	.171
Spain.....	.015	.030	.015	.010	.003	.000	.015	.000	.000	.000	.000
European Net Exporters											
Norway.....	-	-	-	-	-	-	.000	.000	.000	.000	.000
United Kingdom....	.011	.006	.006	.045	.002	.027	.049	.058	.039	.032	.031
Smaller European Importers											
Austria.....	-	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
Belgium.....	.000	-	-	.000	.001	.006	.056	.005	.004	.015	.004
Denmark.....	.045	.060	.066	.034	.000	.000	.000	.000	.000	.000	.002
Finland.....	-	-	-	-	.000	-	-	-	-	-	-
Greece.....	.030	.015	.009	.000	.000	.002	.005	.001	.000	.000	.000
Portugal.....	.001	.003	.003	.002	.000	.000	.000	.000	.000	.000	.000
Sweden.....	-	-	.001	.001	.000	.000	.002	.000	.000	.000	.000
Switzerland.....	-	-	-	-	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.013	.019	.019	.011	.000	.010	.016	.016	.014	.015	.014
Japan.....	.347	.341	.458	.291	.014	.220	.368	.430	.501	.500	.554
Other OECD.....	.026	.029	.017	.013	.000	.000	.009	.011	.009	.010	.006

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1995 are preliminary.

Sources: See end of Section 4.

## Sources for Section 4 (Historical Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1997; • Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, various issues.

Other Countries: • EIA, International Energy Annual, various issues. • EIA, International Petroleum Annual, 1978. • United Nations, Yearbook of World Energy Statistics, 1979. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, October 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1997: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 1997.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1997: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1997.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-1997.

## **Appendix A**

### **Organizational and Geographical Definitions**



## Appendix A. Organizational and Geographical Definitions

**International Energy Agency (IEA)** countries are: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

**Organization for Economic Cooperation and Development (OECD)** countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Total OECD includes the United States Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). Total OECD excludes data for Czech Republic, Hungary, Mexico, Poland, and South Korea which are not yet available.

**OECD Europe** countries are: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and United Kingdom. OECD Europe excludes data for Czech Republic, Hungary, and Poland which are not yet available.

**Organization of Petroleum Exporting Countries (OPEC)** members are: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. As of December 31, 1992, Ecuador withdrew its membership in OPEC, and as of December 31, 1994, Gabon withdrew its membership. For consistency, Ecuador and Gabon are excluded in the historical series of OPEC totals.

**Arab members of OPEC** are: Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia and the United Arab Emirates.

**Organization of Arab Petroleum Exporting Countries (OAPEC)** are: Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Neutral Zone, Qatar, Saudi Arabia, Syria, Tunisia, and the United Arab Emirates. In April 1979 Egypt was suspended from OAPEC membership. In May 1989 Egypt rejoined OAPEC. For consistency, Egypt is included in the historical series of the OAPEC totals.

**Persian (Arabian) Gulf countries** are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

The term "Former USSR" is being used in the International Petroleum Statistics Report as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

## **Appendix B**

### **Explanatory Notes**

## Appendix B. Explanatory Notes

### Note 1: World Oil Supply

Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gain, alcohol, and liquids produced from coal and other sources. Beginning in 1993, U.S. data includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

### Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of December 1997 United States (including territories) oil stocks totaled 1,415 million barrels.

### Note 3: A Change to the Oil Balance in Section 2.

Prior to August 1992, Section 2 of the International Petroleum Statistics Report presented a balance of oil supply, demand, and stock change for the Market Economies, at quarterly time intervals. The communist countries, or Centrally Planned Economies (CPEs) were not included in the balance, mainly because good quarterly data for oil demand in these countries were not available. Net imports from the CPEs were included in the balance as part of total Market Economies supply. At present, the former Soviet Union and most of the countries of Eastern Europe are in transition from communism to market economies; because of this there are no longer good political or economic reasons to publish an oil balance only for the countries that have traditionally been market economies. Beginning with the August 1992 edition, Section 2 of the International Petroleum Statistics Report was changed from a Market Economies oil balance to a world oil balance.

The main data issues related to this change may be summarized as follows:

Supply Data. Monthly oil supply data are available for all countries of the world. These data are used to generate Tables 1.1 to 1.4; they were used to expand the Section 2 supply table (Table 2.2) to the whole world.

Demand Data. EIA has now developed quarterly figures for world oil demand, including demand in the former CPEs; these are published in Table 4 of EIA's Short-Term Energy Outlook. The procedures involved in developing quarterly world demand numbers may be summarized as follows:

Complete monthly data are available for the 24 OECD countries. Annual demand data for all countries (about 200 countries) are presented in EIA's International Energy Annual. In 1993, the OECD accounted for about three-fifths of total world demand, the 25 largest consumers outside of the OECD accounted for about one-third of the world total, and the remaining countries (about 150 countries) accounted for less than one-tenth of the total. The key problem, therefore, is to develop good figures for the 25 largest consumers outside the OECD.

Of these 25 countries, by far the largest consumer is Russia, which in 1993 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is China, which in 1993 accounted for about one-seventh of the demand in the group. Thus in 1993 Russia and China accounted for one-third of the demand in the group of 25. For these 2 countries, data are available on oil production and net exports. The demand numbers shown in Section 2 are computed as production minus net exports. This is the same procedure used in the EIA Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other respected publications that deal with international oil markets. Note, however, that this method of computing demand ignores both refinery gain and stock changes.

For other major consuming countries outside of the OECD, quarterly demand data are developed based upon the latest available annual data, analytic judgment about current trends, and some seasonal adjustments. These are the same procedures used for the Short-Term Energy Outlook.

Stocks Data. Reliable stocks data are available for the OECD countries. Estimates of stocks for export and afloat, and of commercial floating stocks, are available. (See sources at the end of Section 2.)

For on-land stocks outside the OECD, there is little reliable data. Most estimates of on-land stocks outside the OECD are based on the theory that stocks are approximately equal to some number of days of demand. Demand figures (which themselves involve some degree of estimation) are then used to compute estimates of stock levels.

In the International Petroleum Statistics Report, it had been the practice for some time to estimate that on-land stocks in the traditional market economies outside of the OECD were equal to 55 days of demand. This was acceptable, mainly because the rule was used only to estimate a relatively small part of total stocks (about 16 percent).

When Section 2 was converted from a Market Economies oil balance to a world oil balance, there were important changes in the conditions that made it reasonable to estimate on-land stocks outside of the OECD using the rule of 55 days of demand. When the CPEs are included, the stocks that must be estimated are a considerably larger part of the total. In 1990, total oil demand in the former CPEs was more than 80 percent as large as demand in all of the non-OECD traditional market economies. Thus the quantity of stocks that would have to be estimated using a 55-day rule would nearly double, and the estimated components of stock levels and stock changes would become relatively large parts of the total. One consequence of this is that the statistical discrepancy (as shown in Table 2.1) would become less useful as an indicator of the overall consistency of the data. The statistical discrepancy is computed from supply, demand, and stock change. If a large part of the stock change is estimated, then the statistical discrepancy loses much of its significance.

As already noted, quarterly demands in the former Soviet Union and in China are computed as production minus net exports. This computation implicitly assumes a zero stock change. Demand in the former Soviet Union is falling. If we were to use a 55-day rule to compute stock levels, falling demand would imply falling stock levels. This would contradict the assumption of zero stock change which was used in computing demand.

In view of all this, the following approach has been adopted. Table 2.3 now shows levels of stocks for the OECD countries, levels of stocks for export and afloat, and levels of commercial floating storage. Stock changes based on these stock levels are shown in Table 2.1. At this time, no other stock levels are shown. Table 2.1 now has a single line labelled "Other Stock Draw and Statistical Discrepancy", which contains the computed values needed to make the table balance.

It may become possible in the future to obtain reliable information on certain categories of on-land stocks outside the OECD. If such data become available, they will be added to Table 2.3, and the corresponding stock change information will be added to Table 2.1.

Changes in Formats and Sign Conventions. There were several changes in Section 2 to make the International Petroleum Statistics Report more consistent with other EIA publications, especially with the Short-Term Energy Outlook. The numbers were changed from 1 decimal place to 2 decimal places. The word "consumption", as used before August 1992, was changed to "demand". The sign convention for stock changes in Table 2.1 was changed. Stock draws are now indicated by positive numbers, and stock additions are indicated by negative numbers. Table 2.1 also uses a new sign convention for the line labelled "Other Stock Draw and Statistical Discrepancy". The values in this line are now computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw. This is the reverse of the sign convention used before August 1992.

Summary. Section 2 was expanded from a Market Economies oil balance to a world oil balance. Supply data are tracked for all producing countries. Demand data are tracked for the 24 OECD countries, and for 25 large consumers outside of the OECD. Demand for the remaining countries (less than 10 percent of total demand) is estimated, for years that are not yet available in the International Energy Annual. The stock levels in these tables are based on reported data for the OECD and for stocks at sea. The line in Table 2.1 labelled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

**Appendix C**

**Glossary**

## Appendix C. Glossary

**Alcohol.** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The molecules in the series vary in chain length and are composed of a hydrocarbon plus a hydroxyl group. Alcohol includes methanol and ethanol.

**Demand (Consumption/Petroleum Products Supplied).** Total petroleum products supplied is the sum of all petroleum products supplied. For each product, the amount supplied is calculated by summing production, crude oil burned directly, imports, and net withdrawals from primary stocks and subtracting exports.

**Crude Oil.** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Crude oil production is measured at the wellhead and includes lease condensate.

**Government-Owned Stocks.** Oil stocks owned by the national government and held for national security. In the United States these stocks are known as the Strategic Petroleum Reserve.

**Lease Condensate.** A liquid recovered from natural gas at the well or at small gas/oil separators in the field. Consists primarily of pentanes and heavier hydrocarbons (also called field condensate).

**Natural Gas Plant Liquids.** Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators. Products obtained include ethane, liquefied petroleum gases, (propanes, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

**Oil Stocks.** Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. See Explanatory Note 2.

**Other Hydrocarbons.** Other materials processed at refineries. Includes coal tar derivatives, hydrogen, gilsonite, and natural gas received by the refinery for reforming into hydrogen.

**Oxygenates.** Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend. They include: Fuel Ethanol, Methanol, and MTBE (Methyl tertiary butyl ether).

**Petroleum Products.** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt road oil, still gas, and other miscellaneous products.

**Processing Gain.** The amount by which the total volume of refinery output is greater than the volume of input for given period of time. The processing gain arises when crude oil and other hydrocarbons are processed into products that are, on average, less dense than the input.

**Processing Loss.** The amount by which the total volume of refinery output is less than the volume of input for given period of time. The processing loss arises when crude oil and other hydrocarbons are processed into products that are, on average, more dense than the input.

## **Appendix D**

### **Estimation Procedures**



## Appendix D. Estimation Procedures

Estimation procedures are used for demand numbers in many of the countries outside of the OECD, in cases where data from EIA's International Energy Annual are not yet available. Demand numbers for 1996 and earlier years, for all countries, may be found in EIA's International Energy Annual 1996, published in February 1998, which is the most recent published edition of the International Energy Annual. EIA's WORLD ENERGY database contains final demand data for all countries of the world for 1995, and preliminary demand data for all countries for 1996. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/main1.html>). The status of the demand numbers shown in Section 2 of this current International Petroleum Statistics Report may be summarized as follows.

The OECD demand numbers are, as usual, based on the latest Quarterly Oil Statistics and Monthly Oil Statistics data from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1996 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1997 forward are the best available EIA estimates, based upon the best annual data currently available, analytic judgment about current trends, and some seasonal adjustments. These are the same numbers that appear in the international oil balance table in EIA's Short-Term Energy Outlook.

The two largest non-OECD oil consumers are the former Soviet Union and China. For these two countries, published data are available on production and net exports. Demand is computed as production minus net exports. This is the same approach used in the Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other major publications dealing with international oil data. Note, however, that because of this computation, the demand numbers for the former Soviet Union and China implicitly exclude stock draw and refinery gain.

## **Appendix E**

### **Conversions**

**Table E1. Refined Petroleum Products Conversion Factors**

Product	Barrels per Metric Ton
Asphalt . . . . .	6.06
Distillate Fuel Oil . . . . .	7.46
Gasoline, Aviation . . . . .	8.90
Gasoline, Motor . . . . .	8.53
Greases . . . . .	6.30
Jet Fuel, Kerosene-type . . . . .	7.93
Jet Fuel, Naptha-type . . . . .	8.27
Kerosene . . . . .	7.73
Liquefied Petroleum Gas (LPG) . . . . .	11.60
Lubricants . . . . .	7.00
Miscellaneous Products . . . . .	8.04
Naphthas . . . . .	8.22
Natural Gas Liquids (NGL) . . . . .	10.40
Natural Gasoline . . . . .	10.00
Paraffin Oil . . . . .	7.14
Paraffin Wax . . . . .	7.87
Petrolatum . . . . .	7.87
Petroleum Coke . . . . .	5.51
Residual Fuel Oil . . . . .	6.66
White Spirits . . . . .	8.50

**Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996**

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<b>North America</b>										
Canada . . . . .	7.453	7.453	7.453	7.453	7.186	7.186	7.186	7.186	7.186	7.186
Mexico . . . . .	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965
United States . . . . .	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333
<b>Central &amp; South America</b>										
Argentina . . . . .	7.149	7.149	7.149	7.149	7.120	7.120	7.120	7.120	7.120	7.120
Bolivia . . . . .	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881
Brazil . . . . .	7.268	7.268	7.268	7.268	7.056	7.056	7.056	7.056	7.056	7.056
Chile . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Colombia . . . . .	7.084	7.084	7.084	7.084	7.080	7.080	7.080	7.080	7.080	7.080
Cuba . . . . .	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449
Ecuador . . . . .	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130
Peru . . . . .	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407
Trinidad and Tobago . . . . .	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
Venezuela . . . . .	6.880	6.880	6.880	6.880	6.890	6.890	6.890	6.890	6.890	6.890
<b>Western Europe</b>										
Austria . . . . .	7.082	7.082	7.082	7.082	7.200	7.200	7.200	7.200	7.200	7.200
Denmark . . . . .	7.689	7.689	7.689	7.689	7.405	7.405	7.405	7.405	7.405	7.405
France . . . . .	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Germany . . . . .	--	--	--	--	7.300	7.330	7.330	7.330	7.330	7.330
Germany, East . . . . .	7.340	7.340	7.340	7.340	7.340	--	--	--	--	--
Germany, West . . . . .	7.247	7.247	7.247	7.247	7.247	--	--	--	--	--
Greece . . . . .	7.178	7.178	7.178	7.178	7.231	7.231	7.231	7.231	7.231	7.231
Italy . . . . .	6.853	6.853	6.853	6.853	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands . . . . .	6.853	6.853	6.853	6.853	7.239	7.239	7.239	7.239	7.239	7.239
Norway . . . . .	7.810	7.810	7.810	7.810	7.644	7.644	7.644	7.644	7.644	7.644
Spain . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Sweden . . . . .	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Turkey . . . . .	7.150	7.150	7.150	7.150	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom . . . . .	7.466	7.466	7.466	7.466	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia . . . . .	7.418	7.418	7.418	7.418	7.418	7.418	--	--	--	--
Croatia . . . . .	--	--	--	--	--	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro . . . . .	--	--	--	--	--	7.418	7.418	7.418	7.418	7.418
Slovenia . . . . .	--	--	--	--	--	--	--	7.418	7.418	7.418

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) (February 1998).

Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996 (continued)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<b>Eastern Europe &amp; Former U.S.S.R.</b>										
Albania . . . . .	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594
Bulgaria . . . . .	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Former Czechoslovakia . . . . .	6.780	6.780	6.780	6.780	6.780	6.780	6.780	--	--	--
Czech Republic . . . . .	--	--	--	--	--	--	6.780	6.780	6.780	6.780
Slovakia . . . . .	--	--	--	--	--	--	6.780	6.780	6.780	6.780
Hungary . . . . .	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland . . . . .	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R. . . . .	7.270	7.270	7.270	7.270	7.270	--	--	--	--	--
Azerbaijan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Belarus . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Georgia . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Lithuania . . . . .	--	--	--	--	--	--	--	7.270	7.270	7.270
Kazakhstan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Russia . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Tajikistan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Turkmenistan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Ukraine . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Uzbekistan . . . . .	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
<b>Middle East</b>										
Bahrain . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran . . . . .	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305
Iraq . . . . .	7.426	7.426	7.426	7.426	7.430	7.430	7.430	7.430	7.430	7.430
Israel . . . . .	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Jordan . . . . .	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190
Kuwait . . . . .	7.245	7.245	7.245	7.245	7.250	7.250	7.250	7.250	7.250	7.250
Oman . . . . .	7.332	7.332	7.332	7.332	7.330	7.330	7.330	7.330	7.330	7.330
Qatar . . . . .	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Saudi Arabia . . . . .	7.268	7.268	7.268	7.268	7.323	7.323	7.323	7.323	7.323	7.323
Syria . . . . .	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836
United Arab Emirates . . . . .	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480
Yemen . . . . .	7.627	7.636	7.632	7.632	7.631	7.631	7.631	7.631	7.631	7.631

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) February 1998).

**Table E2. Barrels of Crude Oil per Metric Ton, 1987-1996 (continued)**

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
<b>Africa</b>										
Algeria . . . . .	7.936	7.936	7.936	7.936	8.130	8.130	8.130	8.130	8.130	8.130
Angola . . . . .	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409
Benin . . . . .	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
Cameroon . . . . .	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205
Congo . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Cote d'Ivoire (Ivory Coast) . . . . .	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Egypt . . . . .	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256
Equatorial Guinea . . . . .	--	--	--	--	--	8.077	8.077	8.077	8.077	8.077
Gabon . . . . .	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305
Ghana . . . . .	7.285	--	--	--	--	--	7.285	7.285	7.285	7.285
Libya . . . . .	7.515	7.515	7.515	7.515	7.580	7.580	7.580	7.580	7.580	7.580
Morocco . . . . .	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
Nigeria . . . . .	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315
South Africa . . . . .	--	--	--	--	--	--	9.853	9.853	9.853	9.853
Sudan . . . . .	--	--	--	--	--	--	7.452	7.452	7.452	7.452
Tunisia . . . . .	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689
Zaire . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
<b>Far East &amp; Oceania</b>										
Australia . . . . .	7.855	7.855	7.855	7.855	7.868	7.868	7.868	7.868	7.868	7.868
Bangladesh . . . . .	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453
Brunei . . . . .	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340
Burma . . . . .	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
China . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
India . . . . .	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
Indonesia . . . . .	7.558	7.558	7.558	7.558	7.558	7.558	7.558	7.558	7.558	7.558
Japan . . . . .	7.285	7.285	7.285	7.285	7.357	7.357	7.357	7.357	7.357	7.357
Malaysia . . . . .	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641
New Zealand . . . . .	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127
Pakistan . . . . .	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Papua New Guinea . . . . .	--	--	--	--	--	7.809	7.809	7.809	7.809	7.809
Philippines . . . . .	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Taiwan . . . . .	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568
Thailand . . . . .	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758
Vietnam . . . . .	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082

-- = No Production of this form of energy.

Sources: International Energy Annual 1996. DOE/EIA-0219(96) (February 1998).